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PUBLICATIONS

OF THE

# FIELD COLUMBIAN MUSEUM

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REPORT SERIES

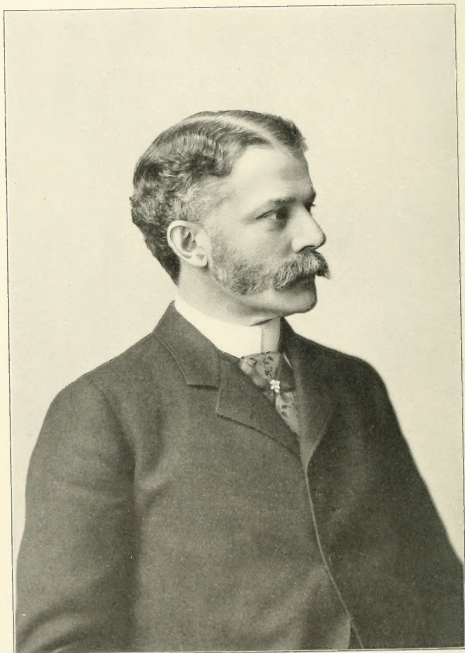
VOLUME II

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CHICAGO, U. S. A.

1901-1905. m



THE LATE HUNTINGTON W. JACKSON,  
An Incorporator of the Museum.

FIELD COLUMBIAN MUSEUM

PUBLICATION 70.

REPORT SERIES.

VOL. II, No. 2.

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ANNUAL REPORT OF THE  
DIRECTOR

TO THE  
BOARD OF TRUSTEES

FOR THE YEAR 1901-1902.



CHICAGO, U. S. A.

October, 1902.





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CARL E. AKELEY.

# ANNUAL REPORT OF THE DIRECTOR.

1901-1902.

To the Trustees of the Field Columbian Museum:

I have the honor to present the Report of the operations of the Museum during the year closing September 30, 1902:

**INCOME AND MAINTENANCE.**—In executing the plans initiating with the Special Committee on new work, approved by the Executive Committee, the cost of new installation in the Museum for the past year has approximated \$50,000.00, the chief item being \$26,000.00 for new cases. This sum has been about equally divided, not in amount but in importance of results, between the four Departments of the institution.

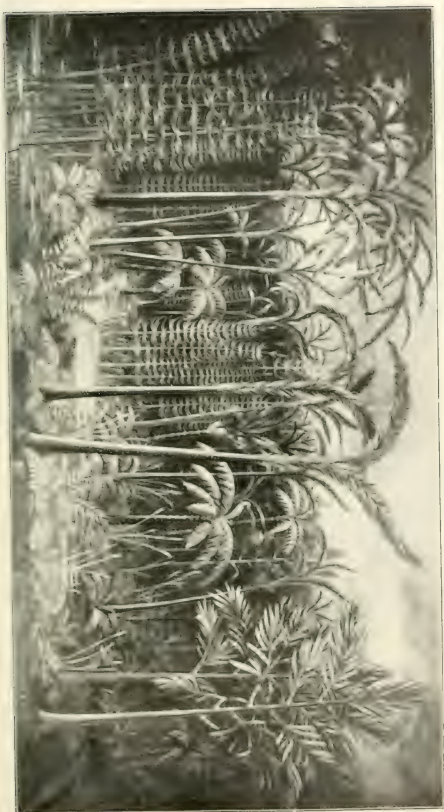
While the repairs and physical maintenance of the building by the exercise of the greatest economy cost \$2,000.00 less than the provision of the budget for these items, this should not be accepted as an indication that the building is requiring less attention. The fact is, on the contrary, that the structure has about reached the limits of repair, using that word in its literal sense. That is to say, any further expenditure in what might be called the maintenance of the building would be in the line of new construction. This is especially true of the exterior of the building, which, in spite of the most persistent and ingenious efforts to conceal the real condition, is gradually falling to pieces. The building is safe—in fact, much safer than it was when it was taken possession of by the Museum, and I have no reason to believe that disintegration threatens the security of the building as a structure. But I do feel compelled to direct the attention of the Board of Trustees to the necessity which exists, in my opinion, for seriously considering at an early date the welfare of the material whose intrinsic value must be over \$3,000,000.00 and whose educational value is incomputable.

**STAFF OF THE MUSEUM.**—The scientific staff of the Museum has been signally augmented in its importance by the addition of Dr. S. W. Williston, the well-known paleontologist, whose services have been secured under an arrangement with the University of Chicago.

**LECTURE COURSES.**—The lecture courses have been unusually interesting and well attended. They have been participated in by distinguished scholars and students in the various branches of the natural sciences, and I desire to make grateful acknowledgment of the generosity and good will this participation has manifested on their part toward the Museum and its mission.

Following is the Sixteenth Lecture Course:

- Oct. 5.—“The Megalithic Monuments of Brittany” (Illustrated).  
Dr. George A. Dorsey, Curator, Department of Anthropology.
- Oct. 12.—“Through the Arizona Cañon and Yosemite to the Glaciers of Alaska” (Illustrated).  
Dr. Edward Burton McDowell, Chicago.
- Oct. 19.—“The Houses and Family Life of the Natives of Sarawak, Borneo” (Illustrated).  
Dr. Alfred Cort Haddon, F.R.S., F.Z.S., University of Cambridge, England.
- Oct. 26.—“The Ceremonial and Secular Dances of the Papuans” (Illustrated).  
Dr. Alfred Cort Haddon, F.R.S., F.Z.S., University of Cambridge, England.
- Nov. 2.—“Economic Geology, Particularly of Michigan, in Its Relation to the Business World” (Illustrated).  
Prof. Alfred C. Lane, State Geologist, Michigan.
- Nov. 9.—“Color in Nature” (Illustrated).  
Prof. William H. Dudley, Platteville, Wis.
- Nov. 16.—“Mexico” (Illustrated).  
Dr. S. E. Meek, Assistant Curator, Department of Zoology, Field Columbian Museum.
- Nov. 23.—“Recent Dinosaur Discoveries” (Illustrated).  
Mr. Elmer S. Riggs, Assistant Curator of Paleontology, Field Columbian Museum.
- Nov. 30.—“Crystals” (Illustrated).  
Prof. O. C. Farrington, Curator, Department of Geology, Field Columbian Museum.



IDEAL CARBONIFEROUS LANDSCAPE HALL 35 FIELD COLUMBIAN MUSEUM

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UNIVERSITY of ILLINOIS



Following is the Seventeenth Course, delivered in March and April, 1902:

March 1.—“The Glacial Period in North America” (Illustrated).

Prof. Rollin D. Salisbury, University of Chicago.

March 8.—“The Sun Dance of the Cheyenne and the Arapaho” (Illustrated).

Dr. George A. Dorsey, Curator of Anthropology,  
Field Columbian Museum.

March 15.—“The Northern Rocky Mountains” (Illustrated).

Prof. Stuart Weller, Assistant Professor of Paleontology, University of Chicago.

March 22.—“Geological Field Work in the Iron and Copper Districts of the Lake Superior Region” (Illustrated).

Prof. U. S. Grant, Northwestern University, Evanston, Ill.

March 29.—“Birds and Their Nests” (Illustrated).

Dr. James Rollin Slonaker, University of Chicago.

April 5.—“Insects of Southern Peru and Bolivia” (Illustrated).

Mr. William J. Gerhard, Assistant Curator, Division of Entomology, Field Columbian Museum.

April 12.—“Interpretation of Some Features of Landscape” (Illustrated).

Prof. Conway MacMillan, University of Minnesota,  
Minneapolis.

April 19.—“Recent Explorations in Pre-Historic Hopi Ruins, Arizona”—Stanley McCormick Expedition (Illustrated).

Mr. C. L. Owen, Assistant Curator, Division of Archaeology, Field Columbian Museum.

April 26.—“The Crow Indians of Montana, a Western Plains Tribe” (Illustrated).

Mr. S. C. Simms, Assistant Curator, Division of Ethnology, Field Columbian Museum.

**PUBLICATIONS.**—During the year just ended eight papers were issued in the regular series and several are now in course of preparation. Below will be found the titles of those issued since October 1st, 1901, with the number of pages and illustrations indicated:

Pub. 60.—Geol. Ser., Vol. 1, No. 9. "The Dinosaur Beds of the Grand River Valley of Colorado." By Elmer S. Riggs. 20 pp., edition 1,000, illustrations 6 (5 half-tones, 1 zinc etching).

Pub. 61.—An. Ser., Vol. 3, No. 2. "The Oraibi Powamu Ceremony." By H. R. Voth. 95 pp., edition 1,000, illustrations 39 (32 half-tones, 3 zinc etchings, 4 colored plates).

Pub. 62.—Report Ser., Vol. 2, No. 1. "Annual Report of the Director." 80 pp., edition 2,250, illustrations 14 (half-tones).

Pub. 63.—Geol. Ser., Vol. 1, No. 10. "The Fore Leg and Pectoral Girdle of *Morosaurus*, with a Note on the Genus *Camarosaurus*." By Elmer S. Riggs. 14 pp., edition 1,000, illustrations 5 (4 half-tones, 1 zinc etching).

Pub. 64.—Geol. Ser., Vol. 1, No. 11. "Meteorite Studies—I." By O. C. Farrington. 45 pp., edition 1,000, illustrations 9 (8 half-tones, 1 zinc etching).

Pub. 65.—Zool. Ser., Vol. 3, No. 6. "A Contribution to the Ichthyology of Mexico." By S. E. Meek. 65 pp., edition 1,000, illustrations 30 (half-tones).

Pub. 66.—An. Ser., Vol. 3, No. 3. "The Mishongnovi Ceremonies of the Snake and Antelope Fraternities." By G. A. Dorsey and H. R. Voth. 100 pp., edition 1,000, 124 illustrations (117 half-tones, 7 colored plates).

Pub. 67.—Zool. Ser., Vol. 3, No. 7. "Notes on a Collection of Cold-Blooded Vertebrates from Ontario." By S. E. Meek and H. W. Clark. 12 pp., edition 1,000, no illustrations.

The distribution to foreign countries is still continued through the Bureau of International Exchanges of the Smithsonian Institution.

The following table shows the number and classes of foreign and domestic addresses at present included in the mailing list:

## OFFICIAL :

Trustees, . . . . .	13
Staff, . . . . .	15
Corporate Members, . . . . .	3
Honorary Members, . . . . .	3
Annual Members, . . . . .	291

## RECEIVED PUBLICATIONS IN ALL DEPARTMENTS :

	Domestic.	Foreign.
Individuals, . . . . .	10	10
Universities, Schools and Colleges, . . . . .	58	37
Museums and Gardens, . . . . .	6	38
Academies and Institutes, . . . . .	31	12
Societies, . . . . .	24	49
Libraries, . . . . .	60	27
Government and State Departments, . . . . .	11	9
Journals, . . . . .	11	2

## RECEIVED PUBLICATIONS IN ONE OR MORE DEPARTMENTS :

## DOMESTIC.

	*A.	†B.	G.	†H.	†O.	Z.	†T.
Individuals, . . . . .	79	54	110	5	1	39	..
Universities, Schools and Colleges, . . . . .	3	28	11	7	1	8	1
Museums and Gardens, . . . . .	10	8	8	9	..	7	..
Academies and Institutes, . . . . .	4	2	3	7	..	1	2
Societies, . . . . .	11	13	10	13	5	9	4
Libraries, . . . . .	..	2	1	18	..	1	..
Journals, . . . . .	12	9	6	..	3	4	2
Government and State Departments, . . . . .	1	7	18	4	..	13	..

## FOREIGN.

	*A.	†B.	G.	†H.	†O.	†T.	Z.
Individuals, . . . . .	54	27	47	..	4	..	19
Universities, Schools and Colleges, . . . . .	1	..	5	..	1	..	9
Museums and Gardens, . . . . .	10	5	5	..	1	..	5
Academies and Institutes, . . . . .	3	..	9	..	1	..	3
Societies, . . . . .	12	12	19	..	3	..	25
Libraries, . . . . .	1	..	..	..	..	..	..
Journals, . . . . .	26	16	19	..	20	..	19
Government and State Departments, . . . . .	..	5	15	..	..	..	8

**THE LIBRARY.**—During the past year there have been added to the library 921 bound volumes and 944 pamphlets, making a total of

\*A, B, G, H, O, T, and Z, denote Anthropology, Botany, Geology, History, Ornithology, Transportation and Zoology.

† Nothing issued in departments indicated by dagger during year ending September 30, 1902.

1,865 titles. This compares very favorably with the growth of the library for the preceding years. Donations and exchanges have been received from 105 individuals and 486 societies and incorporated institutions, 105 of which are foreign. Eighty-seven books and nine pamphlets were obtained by purchase, making the total number of books and pamphlets now in the library 30,037, distributed as follows:

	Books.	Pamphlets.
General Library, . . . . .	10,032	13,670
Department of Anthropology, . . . . .	308	95
Department of Botany, . . . . .	527	249
Department of Geology, . . . . .	1,642	2,827
Department of Ornithology, . . . . .	378	....
Department of Zoology, . . . . .	309	....

The number of periodicals currently received was 154; by purchase 65, by exchange 89.

It is particularly desired that acknowledgment be made to the Agricultural Experiment Stations of the United States for many back numbers sent to complete the files of its bulletins in the Museum Library.

The physical condition of the library has been much improved during the year; a new double stack for books has been installed in the general library and several minor changes made in the reading room and office to expedite the work of the staff as well as improve the general appearance of the rooms. Four hundred and forty-nine books have been sent to the binder, 302 of which have been returned and placed on the shelves. It was mentioned in the last Report that several books and pamphlets were missing. Careful search has resulted in the restoration of all those that were missing with the exception of one book and eight pamphlets. This is a satisfactory showing when it is considered that this was the first inventory taken since the opening of the library. The most important work done during the year, aside from the regular routine duties, was on the shelf list, subject and author catalogues. Over 2,400 new cards have been written, and considerably over 10,000 cards have been revised and rewritten. Eight installments of the John Crerar duplicate catalogue and 242 index cards from the United States Agricultural Department have been received and distributed. Acknowledgment should be made of the courtesies extended the library by the Chicago Public Library, the John Crerar Library and the University of Chicago Library.

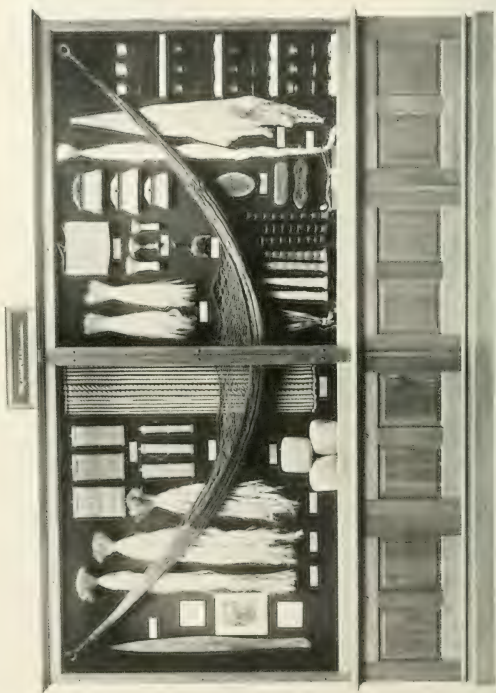
DEPARTMENTAL INVENTORING, CATALOGUING AND LABELING.—All specimens received by the Department of Geology have been numbered and catalogued as received, and all descriptive data regarding them filed. The Curator of this department reports steady and notable progress in labeling, both new specimens and in replacing old written labels with printed ones. Over 700 labels were provided for the collection of gold and silver ores, the data being obtained by a careful study of each specimen so that a statement of the minerals it contained might be made upon the label. Each label was made of a size to correspond with that of the front of the block upon which the specimen was mounted. The systematic rock collection to the number of 1,500 specimens was supplied throughout with printed, in place of written labels. The paleontological collection has received labels for the larger part of such specimens as were mounted upon tablets, 2,200 having been made. Sixty-five case labels have also been prepared and about 600 miscellaneous ones.

The question of properly labeling the economic collections in the Department of Botany has occupied much thought during the past year. Experiments have been made which have led through the following series of considerations, to a final unification of the labels throughout this department. In referring to these experiments Mr. Millspaugh, head of the department, says: "From observation at various times of the movements of people who were examining the collections, it would seem that the first impulse covering the majority of museum visitors is that of curiosity, the second interest and the third a desire for education. Premising the truth of these conclusions, it was decided that the installation of a case should be such as to excite sufficient curiosity in the people who approach it as to attract their attention to it as a whole. The principles involved in such installations are, as I take it, a neat and well ordered arrangement of the specimens not detracted from by strongly contrasting, obtrusive, sharply defined label cards, scattered about in a confusing, disorderly manner. Next, the individual specimens composing the elements of the complete installation should be rendered as attractive as possible without materially affecting their individual character and natural sequence, in order that, having been attracted by the whole, the observer may be interested in some one or all of the specimens exhibited therein. It is now for the first time important that the labels should become apparent to the eye as an integral part of the specimens, and that they should be of such character as to invite reading; plainly typed and condensed; comprehensible to the average reader rather than abstrusely scientific; short, pithy and direct."

Having arrived at these conclusions and noting that installations as yet unlabeled have proven to be more attractive than those rendered distracting by too evident labels, it was decided that the best background to form a general setting for the contents of a case should be dead black, and the label card be the same, typed in some ink just off the strong contrast that white would make. This ink proved to be aluminum. Plate XIX shows the result in a case devoted to the Amarylls. This case, at a distance of 10 feet, appears to be unlabeled, while in fact it contains over thirty cards. Above the photograph at the left of the case is a 6 in. square label describing the Agaves, below it is another of the same size with a full description of Sisal Hemp, the specimens of which, each with its  $4\frac{1}{2}$  in. label, occupy this half of the case. Ixtle fiber and its like sized labels in series occupies the left two-thirds of the right side of the case while the Century and Pulque plants fully labeled, complete the installation. Plate XVIII illustrates the same case and installation using the yellow or buff label card. The labels as now adopted are, as previously stated, of dead-black card printed in aluminum ink, and comprise four sizes only: a "case label," placed outside and above each case announcing the systematic order to which the contents belong; a "generic label," describing the order and its general characters; a "sub-generic label," relating in general, when necessary, to a series of related specimens or to a process illustrated by successive elements; and a "specific label," describing each specimen as an individual. Uniformity without monotony is the key-note aimed at throughout the Department, uniformity not only in the cases themselves, but also in the specimen blocks, containers, framings and labels.

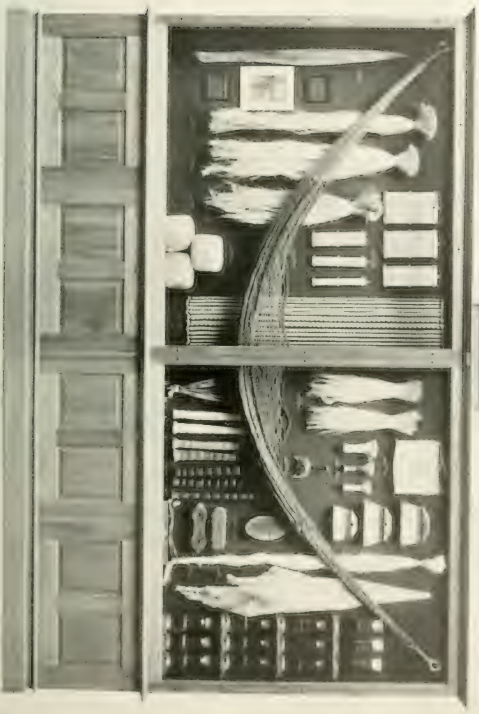
In the Department of Anthropology not only has the work of cataloguing and inventorying kept up with the incoming material, but three unusually large collections have been described. Mr. J. W. Hudson, on returning from expedition late in 1901, began at once the cataloguing and preparing for exhibition of extensive collections made by him in California, as also did Assistant Curator Owen on his return from Tusayan, on the various collections, chiefly archæological, which had been secured through the generosity of Mr. Stanley McCormick. This latter accession comprised over 8,000 specimens and the necessary work of preparing and properly cataloguing such an extensive collection has consumed the larger portion of Mr. Owen's time. In accordance with the policy inaugurated three years ago the work of overhauling the entire Department has been carried on and as a result all of the exhibition material formerly occupying Hall 4 and including collections from the various Islands





PHOTOGRAPH BY C. H. CAMPBELL. A CASE OF OBJECTS ILLUSTRATING THE UTILIZATION OF PLANTS OF THE AMARYLL GROUP.







of the Pacific have been thoroughly examined and compared with the collector's original list and are now in satisfactory condition. The immense amount of labor involved in this cataloguing has left but little time for the preparation of printed labels, but all newly acquired material placed upon exhibition has at least been temporarily labeled.

It is highly gratifying to be able to report that the Department of Ornithology has completed the inventory of the study collection which approximates 27,000 specimens. A card catalogue has been prepared showing the number of specimens in each species, from whence obtained, the sex, month and locality in which they were taken and the case and tray in which they may be found. Five hundred and eighty-four specimens, a part of the donation of the United States of Colombia in 1893, have been identified, properly labeled, and entered on the accession records. The bird skins obtained by Mr. Breninger in Mexico to the number of 1,500 have also been labeled, accessioned and incorporated in the study collection.

In the Department of Zoology the inventory books have been kept up and the records are in a satisfactory condition. Over 4,500 printed labels, describing the shell collection, have been substituted for the written ones and about 500 new mounts have been made. The collections of protozoa, sponges, corals and star-fishes have also been re-labeled.

The following table shows in detail the year's work in the Museum on catalogues and inventories:

DEPARTMENT.	No. of Record Books.	Total No. of Entries to Sept. 30, 1902.	Entries during 1901-2.	Total No. of Cards Written.
Anthropology, . . .	22	56,000	10,081	58,867
Botany, . . . . .	49	121,355	20,117	4,050
Geology, . . . . .	11	30,964	1,991	6,000
Library, . . . . .	1	32,154	3,882	18,189
Ornithology, . . . .	3	13,268	2,199	.....
Photography, . . .	4	6,392	.....	.....
Zoology, . . . . .	20	25,081	1,089	13,100

**ACCESSIONS.**—Practically all of the accessions in the Department of Anthropology for the year have fallen within the division of Ethnology. If two purchases, both of considerable interest, are excluded, all collections have been derived from field expeditions, consequently they are of unusual interest and of great scientific importance. The Curator made three trips to Oklahoma and one to New Mexico and on these occasions was able to obtain additional material which strengthened in a notable manner the collections already made from the Pawnee, Osage, Arapaho, Ponca and Oto tribes

and two pueblos on the Rio Grande. Assistant Curator Simms made two expeditions to the Crows of Montana, the result being a collection of unparalleled interest in the possession of the Museum up to the present time from any of the Plains tribes. Especially noteworthy in this extensive collection are a large number of very fine skin garments from the times of the buffalo and an extensive collection of over sixty buffalo shields. In connection with the work of collecting, Mr. Simms conducted ethnological investigations chiefly into the mythology and heraldry of the Crows. Mr. Hudson, special assistant of the Department, returned to California early in the year where he still remains continuing the work of investigation and collection among the California tribes. It will probably require another year to complete Mr. Hudson's field work in California, at which time the entire state will have been covered. His success has been unexpectedly gratifying, owing to the fact that several of the California tribes have been found much richer in material than had been anticipated. Mr. Charles F. Newcombe, for several years an interested friend of this Department, began a systematic series of investigations among certain tribes of the northwest coast early this year with a special object in view of strengthening and supplementing the already valuable collection from this region. Mr. Newcombe has so far confined his attention to the Haidas, especially those of Southern Alaska, where he has met with unexpected success and as a result a large and beautiful series of specimens have been added to the collection from this region, which was hitherto poorly represented. A short exploration of two of the lower Tlingit villages was also made, where he secured a number of very interesting ancient carvings. Though not directly connected with the Department, Lieutenant Emmons generously placed his services at the disposition of the Museum during the summer of this year and purchased for the Museum 100 specimens of Tlingit manufacture, all of unusual merit and forming a notable addition to the collection purchased from him. Through a generous provision of Mr. W. McGee, of the Bureau of Ethnology, the Department was enabled to arrange for a piece of co-operative work with the Bureau among the Cheyenne. This work has been carried on during the year by Mr. James Mooney, a well known ethnologist of the Bureau, and will require an additional year for completion. As a result of this work the Museum expects to acquire a complete collection of Cheyenne artifacts in addition to the reproduction of an entire Cheyenne camping circle as it existed many years ago. All the tipis of a certain year will be reproduced in miniature, properly decorated and with

each tipi will be the shield and other objects especially connected with their very remarkable system of heraldry. Two collections which were of unusual interest were purchases. The first is a collection of about 1,400 specimens from the Tlingits of Alaska and known as the Spuhn collection, although the majority of the specimens were collected by Lieut. Emmons, while the entire collection was labeled by him. The collection is unusually complete even to the minutest detail and is especially welcome inasmuch as this region of the northwest coast was not before represented except by certain priceless specimens illustrating a certain few phases of culture in the Edward E. Ayer collection. The second collection purchased was kindly selected for the Department by Mr. Ayer and comprised a number of remarkable bronze castings from Benin, Africa, and two ancient and valuable Etruscan tombs.

The accessions in the Department of Botany have been many and important. The Herbarium has been augmented to the extent of 2,467 sheets of dried plants from various countries, principally from the United States. Of these 9,946 sheets have been mounted, classified and arranged in the genus covers, together with about 1,500 sheets from the Patterson Herbarium, which is now about one-half mounted and installed. Among the notable collections secured were the following: The private herbarium of Mr. Mason Bross, comprising 1,118 sheets, representing his work of collecting, principally of the flora of Cook County and Northern Illinois and Indiana; the private herbarium of the late Mr. J. A. Stewart of Peoria, Ill., consisting of 1,622 sheets, representing his collection of the flora of the Peoria region and a tour through the Southern States in 1862. Mrs. Agnes Chase also contributed 190 sheets of the more interesting plants of the Chicago region. By purchase the herbarium of Mr. A. A. Heller, of Lancaster, Pa., was obtained, consisting of over 13,000 sheets of plants. In addition to the above, the following sets were secured: Frank E. McDonald, Southern Illinois plants, 355 sheets; Rugel's Florida collection, 430 sheets; S. M. Tracy's Gulf States collection for 1901, 437 sheets; C. G. Pringle's Mexican collection for 1901, 197 sheets; the Botanic Gardens, Sydney, N. S. W., 100 sheets of Australian plants; Rev. Ernest C. Smith, 212 sheets of plants from the Yellowstone National Park, and the Robert Bebb series of 252 sheets from his Southern Illinois and Indiana collection, 1901. Much economic material has also been acquired, the notable additions being as follows: Mr. J. N. Rose, 84 specimens of economic material; Mr. W. R. Ruffner, series of coffees; Marshall Field & Company, 98 type specimens of typical cotton cloths and laces; the Celluloid Company,

New York, 23 specimens illustrating the processes in the manufacture of celluloid; Rev. H. R. Voth, 94 specimens of maize raised by the Hopi Indians; the N. K. Fairbank Company, a series of 25 specimens illustrating the utilization of cotton seed oil, The Old Times Distillery Company, a series of 10 specimens illustrating the manufacture of whiskey from maize.

The chief additions to the Department of Ornithology were obtained by Mr. Breninger in the field, consisting of 1,500 bird skins, many of which were new to the collections, and 163 eggs. Some minor gaps in the exhibition series were filled by purchase in the local market from time to time.

A series of the ores and minerals of Chile from the Chilean Commission to the Pan-American Exposition was among the important acquisitions in the Department of Geology. Other important accessions were: Portion of a fossil tree of the Carboniferous period, with markings well preserved, from the Delaware, Lackawanna & Western Railroad Company; 5 large slabs showing different varieties of Washington serpentine marble, from the United States Marble Company; several specimens of crystals from Mr. W. J. Chalmers; a number of representative gold, copper and corundum ores from Mr. B. W. Goodsell, and a collection of Hawaiian lavas and minerals from Father M. J. Boarman. Quite an amount of material was obtained by exchange, the most important being about fifty specimens of rocks and minerals of Colorado from the Colorado School of Mines, 200 specimens of foreign invertebrate fossils from Mr. W. E. Crane, Tarrytown, N. Y.; a section of the Algoma meteorite from the University of Wisconsin, and a number of specimens of modern invertebrates from Ward's Natural Science Establishment. By purchase the chief acquisitions have been a meteorite from Kansas and specimens of three other falls; relief maps of Niagara Falls, the Hawaiian Islands and Porto Rico, and a series of four relief maps illustrating the stages of recession of Lake Michigan; a collection of fossils from Alaska, including some types of Bison; a series of Upper Silurian and Devonian fossil fishes from Scotland and a number of mineral specimens.

The condition of the specimens obtained by Mr. Heller in the field justifies the great importance which should be attached to this method of obtaining additions to the Zoological collections. This collector's itinerary ranged from Oregon to California and from California to Mexico, and the conscientious manner in which he covered this territory is a matter on which the Museum should be congratulated, as will be seen by the accession lists appended. Much desirable material was also obtained by purchase, notably that obtained from

Mr. C. F. Periolat, consisting of grizzly bear skins, white foxes, blue foxes, caribou, etc. Mention should also be made of the generous gift of Mr. Vernon Shaw Kennedy of certain Mexican mammals. Mr. Gerhard, Assistant Curator of the Division of Entomology, added over 2,500 specimens of insects to the collections.

**EXPEDITIONS AND FIELD WORK.**—Sixteen expeditions, representing all of the Departments of the Museum, visited different places of research in North America during the year. Anthropology has, perhaps, performed the notable original work, which has been prosecuted with great vigor by all of the members of the staff of that Department: Messrs. Dorsey, Simms, Owen, Hudson and Newcombe. A list of the expeditions made during the year follows:

Locality.	Collectors.	Material.
Alaska, . . . . .	C. F. Newcombe, . . . .	Haida and Tlingit Ethnology.
Oklahoma, . . . . .	James Mooney, . . . .	Kiowa and Comanche Ethnology.
Montana, . . . . .	S. C. Simms, . . . . .	Crow and Cheyenne Ethnology.
Oklahoma, . . . . .	Geo. A. Dorsey, . . . .	Pawnee and Arapaho Ethnology.
California, . . . . .	J. W. Hudson, . . . . .	California Ethnology.
Mexico, . . . . .	Geo. F. Breninger, . . . .	Birds and Eggs.
Eastern Asia, . . . . .	Alleyne Ireland, . . . .	Ethnology, Geology and Botany.
Oklahoma, . . . . .	Geo. A. Dorsey, . . . .	Pawnee, Osage and Oto Ethnology.
Indiana, Kentucky, Tennessee and Missouri, . . . . .	W. A. Phillips, . . . .	Data for Map of Distribution of Mill Creek Quarry.
Northern Minnesota, . . . . .	Chas. J. Brand, . . . .	North American Forestry Woods, Herbarium Specimens, Economic Specimens.
Montana, . . . . .	S. C. Simms, . . . . .	Crow Ethnology.
Oklahoma, . . . . .	Geo. A. Dorsey, . . . .	Ponca, Tonkaway and Arapaho Ethnology.
Oklahoma, . . . . .	Geo. A. Dorsey, . . . .	Pawnee Ethnology.
North Dakota, . . . . .	E. S. Riggs, . . . . .	Cretaceous fossils.
Montana, . . . . .	O. C. Farrington, . . . .	Minerals.
South Dakota and Wyoming, . . . . .	H. W. Nichols, . . . .	Ores and Minerals.

During the early part of the year, Mr. Nichols, Assistant Curator of Geology, visited several graphite mines in South Dakota and Wyo-

ming and collected full suites of specimens illustrating the occurrence of that mineral, as well as other ores and minerals of the vicinity. A find in North Dakota of Cretaceous bird remains and other vertebrates, news of which had reached the Museum, was investigated by Mr. Riggs, Assistant Curator of Paleontology. About two weeks were spent in the region, and as a result some fragmentary fossils and economic specimens were secured and arrangements made to have further finds forwarded to the Museum. The Curator spent about two weeks in mineral localities in Oxford County, Maine, and obtained about two hundred specimens of the typical minerals of the region, such as beryl, orthoclase, tourmaline, bertrandite, lepidolite, quartz, garet and amblygonite. Some collecting of local fossils and minerals at Thornton and Elmhurst, Ill., was carried on by the Curator and Mr. A. W. Slocum.

The collection of an adequate representation of the forest trees of the United States that bear particularly upon commerce and the deforestation of the country that was begun several years ago and lapsed for the last three years on account of lack of time with the then working force of the Department of Botany, has again been taken up, three weeks being spent in Northern Minnesota for this purpose. Incidental to this work, other collections of economic material were made in the same locality. The Department has continued its field work upon the Plant Life of the "Lake Chicago Basin," a flora that is rapidly becoming extinct from drainage and reclaiming of the area for building and other purposes. During the year 388 specimens have been added to the already fine series representing this interesting region.

The expeditions of the Department of Anthropology include three by the Curator to Oklahoma and New Mexico, one of these being especially to the Pawnee, funds for which were generously provided by Mr. Cyrus H. McCormick, Mr. Martin A. Ryerson, Mr. Watson F. Blair and Mr. E. E. Ayer; two by Assistant Curator Simms to the Crows; Mr. Mooney's work especially concerning the heraldry of the Cheyenne; Mr. Hudson's extended investigations among the tribes of California; Mr. Newcombe's investigations among the Haidas, especially concerning certain phases of their mental culture. There remains to be noticed the continuation of a series of investigations begun three years ago by the Department among the Hopi, and which have been carried on through the generosity of Mr. Stanley McCormick. The work during the present year has been in charge of Mr. H. R. Voth, who is engaged in preparing for publication accounts of Hopi ceremonies. Mr. McCormick's provision also makes possible the completion of the series of Oraibi altars.







The majority of additions to the Zoological collections were procured by work in the field. The collections made by Mr. Heller are of very considerable value and of great assistance in scientific work in connection with the study collection. In order to extend the field work in this Department and enable the Department to cover more ground, Mr. W. E. Snyder was engaged to collect in certain of the Northern and Western States, but he was unfortunately compelled to make an early return.

**INSTALLATION, REARRANGEMENT AND PERMANENT IMPROVEMENTS.** The exterior of the building has received the usual attention but it is becoming evident that certain parts of the structure have reached a state of decay where renewal is impossible. The steam plant was entirely overhauled and a new boiler substituted for one entirely worn out. The Director's office has been calsomined and a hardwood floor laid.

As usual, installation in the Department of Anthropology was pushed forward as rapidly as cases were provided, in accordance with the policy determined upon three years ago. The work of repainting the halls of the Department was also proceeded with. The H. N. Higinbotham Korean collection occupying Hall 2 has been recased. During the year the contents of Halls 4, 5 and 6 were removed, the cases abandoned, the walls freshened and the work of reinstallation of the collections carried on in accordance with the number of new cases provided. Hall 4 is completed and the work of installing the South Sea collections is about completed. No provision has yet been made for the re-casing of the collections from Asia and Africa. It is gratifying to note that the textile collection has been formally abandoned and that therefore the lines of the Department on a strictly anthropologic basis are becoming more and more tightly drawn. Owing to the increase in the collections in North American Ethnology it has been necessary to find additional space. The collections which formerly occupied Halls 10 and 11, therefore, comprising the material from the Eskimo, have been removed to one of the halls north of the East Court. This will make possible a better arrangement of the material in the southeast corner of the Museum. The following collections have been installed and properly placed in new cases: Apache, Navaho, Winnebago, Cheyenne, Crow and Shoshapian, as well as the collection made by Mr. Hudson in California, and by the McCormick Expedition among the ruins of Tusayan. The large collection of Tlingit material purchased from Lieut. Emmons has been temporarily installed in Hall 1, awaiting the re-arrangement of all the northwest coast collections when Mr. Newcombe shall have finished his field work among these tribes.

In the Department of Botany the work of installing the economic collections in proper display cases for view by the public and study by students and special workers has been diligently continued throughout the year, an assistant having been employed with especial view to forwarding this work. In installing the cases referred to 1165 specimens have been added to the collections. The following installations have been accomplished:

GRAMINEÆ:

Six and one-half cases illustrating Indian Corn. Its geographic distribution (by specimens), its varieties, its history and mythology (by specimens). Various forms of aboriginal and commercial foods, the manufacture of whiskey. The use of pith as an obtunder and obturator in warships, and various utilization of the husk.

FAGACEÆ:

One-half case illustrating the utilization of the beech in the extraction of vinegar and alcohol. Two cases illustrating the growth, character and utilization of the cork tree.

MALVACEÆ:

Three cases illustrating the utilization of cotton. The extraction and use of the seed oil, the manufacture of celluloid, absorbent cotton, thread and cloth, the stalk fiber and the root.

THEACEÆ:

One-half case of various teas.

ILICINEÆ:

One-half case showing the utilization of Paraguay tea or maté.

RUBIACEÆ:

One case illustrating coffee. Its geography (by specimens), its harvesting, its sophistication and substitution.

ANACARDIACEÆ:

One-half case showing the various products of the family: Japanese lacquer, pistach nuts, marking nuts, wine, oils, waxes, gums and fruits.

LAURACEÆ:

One-half case showing the various products of the family: Camphor, cinnamon, cassia bark, sassafras, oils, fruits and gums.

PALMEÆ:

Two and one-half cases illustrating the utilization of the coconut palm, cordage, wood, utensils, matting, sugar, oil, confections,

fodder and soap. One-half case of palmetto illustrating brush manufacture. One case of saw palmetto illustrating brush and fiber manufacture.

#### URTICACEÆ:

One-half case of hemp illustrating the utilization of the fiber, the drug hashish, the seed and the oil.

#### LINACEÆ:

Seven cases illustrating flax, old domestic implements, homespun linen, machine linen, machine thread, and linseed oil extraction.

#### ROSACEÆ:

Five cases illustrating the turpentine industry, the manufacture of textiles from the needles of the Georgia pine, indurated fiber ware, and the manufacture of paper from wood.

#### STERCULIACEÆ:

One-half case illustrating cocoa and chocolate.

#### LEGUMINOSÆ:

Three cases illustrating various products of this large family: Indigo, licorice, peanuts, beans, peas, lentils, lupines, tamarinds, gums, cassia, tonka beans, fibers, tanning substances, etc.

#### AMARYLLIDACEÆ: (Plates XVIII and XIX.)

One case illustrating the utilization of the Mexican Hemp plant, the Century plant, the Pulque plant and the Ixtle of Mexico.

#### GUMS AND RUBBERS:

Two cases illustrating the various products of this nature with a special view to the instruction of pharmacological students.

#### PECULIAR PLANT FOODS:

One case containing temporarily, various odd and interesting human foods of peculiar origin, which will later go into the general systematic arrangement: Agar Agar, Vegetable Cheese, Mandioc Balls, Mowha Flowers, Jamaica Flowers, Sesame Cakes, Screw Beans, Prickly Pears, Yucca Bread, etc.

In the Department of Geology, the most important work performed in installation and rearrangement has been that of a complete reorganization of the paleontological collections. These have been installed in entirely new cases and now occupy five halls instead of three, as formerly. These halls, before occupation, were thoroughly renovated and repainted. For containing the collections thirty-two

wall cases and fourteen floor cases were constructed, after plans prepared by the Curator and assistants. Provision of two kinds of cases was deemed desirable, in order to give more open and attractive appearance to the halls than could be done if either kind was used alone. Further, by this means large and small specimens can be exhibited effectively in the same hall. The wall cases constructed are 12 feet long, 8 feet high, and either 2 or 3 feet deep. The base of the case is 20 inches in height and instead of being made solid, as is usually done, is cut so as to leave six legs, each 6 inches in width and 8 inches high, upon which the case rests. By the substitution of legs for the solid base, marring of the base by the feet of visitors is prevented and dust does not accumulate beneath the case. The portion of the case above the base consists practically, except at the rear, of a series of sashes, each with a single light, framed together. Two sashes, each with a single light 68x70 inches, form the front of the case. These are supported by pin butts fastened to the top rail, by means of which the sash can be swung outward when entrance to the case is desired, or by drawing the pins the entire sash can be removed. This plan of swinging the sashes was adopted with some misgivings on account of the weight to be borne, but it proves in practice to be entirely satisfactory. A specimen in any part of the case can be reached in a moment without the removal of the screws or wearing out of screw holes. Two locks in the lower rail of each sash serve as fastenings. Felted tongue and groove joints prevent the entrance of dust. The backs of the cases are of white-wood made of a framework carrying panels to permit normal shrinkage and expansion of the wood. The cases are provided with shelves cut in 3-foot lengths and varying from 7 to 16 inches in width. Considerable study was given the matter of making the shelf supports adjustable to any height and yet inconspicuous and not unduly consumptive of space. The plan adopted and one which seems to fulfill all requirements is to support the brackets by strips of one-quarter inch strap iron in which holes one inch apart bearing a screw head have been bored. To these, brackets of steel or iron, according to the weight which is to be supported, are fastened with screws, the screw passing in until it is flush with the surface of the bracket. The brackets have the form of a right angle, strengthened nearest the angle by extra thickness. By such a system of shelving and supports the case furniture becomes so inconspicuous that the eye scarcely appreciates its existence, and the specimens alone stand out as the objects which the case was designed to exhibit. The prominence of

the shelf is further lessened by bevelling its front edge a quarter of an inch from the top. In the construction of the floor cases one of the chief desiderata was deemed to be the lighting and installation of the small specimens which form so important a feature of all paleontological collections, so that they could be easily and fully examined. The ordinary style of flat or table case is not well suited to this purpose; the visitor must bend over the case in a fatiguing position, the light is reflected in a glaring manner, quite a number of the specimens are beyond an easy range of the eye and the space available for exhibition is no larger, but in fact smaller than the floor space occupied by the case. Vertical cases are better lighted and more economical of space, but they give a hall a crowded appearance and the majority of the specimens are out of range of the eye. Accordingly a case with top sloping two ways was adopted as best meeting the above needs. The cases so constructed and now in use are 5 feet long, 3 feet 8 inches wide and 5 feet  $4\frac{1}{2}$  inches high. The base is 36 inches high, 8 inches of a portion of this being cut away to leave legs similar to those of the vertical cases. The remaining space is filled by four tiers of drawers which are utilized to hold specimens supplementary to those exhibited in the case above. The case itself constructed upon this base, has a truncated A shape, the sides and ends being single lights. The side lights are  $31 \times 56$  inches in size and represent the amount of exhibition space, no use being made of the ends for display purposes. The end lights are of ground glass and with the narrow top lights aid in illuminating the interior of the case. For installing specimens each case is provided with a wooden screen of the shape of a triangular prism and of such a size as to leave a space of 5 inches between it and the side sashes, parallel with the latter. Upon this screen the specimens are installed, being either fastened immediately to it, or, for the most part, glued to tablets of manila board which are then laid upon the screen. The specimens are thus brought so close to the eye that they can be minutely examined. The economy of space afforded by such a case is shown by the fact that 25 square feet of exhibition space and 25 cubic feet of storage space are secured on each 20 square feet of floor space. The sashes of the cases are, like those of the vertical cases, supported by hinges fastened to the top rail. They are fastened by locks at the bottom. To open the case the sash is swung up and held by struts swinging from the floor of the case. All the openings being felted, the case is dust-proof. In both the vertical and floor cases the glass used is plate and the

wood mahogany. In rearranging the paleontological collections the specimens were so grouped as to distinguish the three great eras. Thus all of the fossils of the Paleozoic era are now exhibited in Hall 35, those of the Mesozoic era in Halls 36 and 59 and those of the Cenozoic era in Halls 59, 60 and 61. At the same time all form a consecutive series from the earliest to the latest. Besides the cases in which the specimens are arranged in stratigraphical order, and which form the bulk of the collection, a collection occupying two cases has been prepared which affords a comparison of ancient and living forms while another collection illustrating methods of fossilization occupies a single case. A series of bromide enlargements illustrating restorations of ancient animals has been framed and placed in the cases. An ideal Carboniferous landscape painted in oil was made by the Museum artists and is exhibited in connection with the fossils of that period. The painting is 8x4 feet in size. The large skeletons and specimens having individual floor mounts were moved to positions corresponding with the new classification and new bases were made for them. Three of the large Dinosaur bones have been placed upon floor mounts. The work of cleaning from the matrix the bones of the large dinosaur individual obtained by the expedition of 1901 was pushed as rapidly as the available force would permit. The following portions of this skeleton are at present cleaned and upon exhibition: 23 caudal vertebræ (in series), 15 chevrons, 3 dorsal vertebræ, 2 pubes, 2 ischia, 1 femur and 1 ilium. In addition considerable work has been done in the paleontological laboratory in remounting and reassembling vertebrate fossils on hand since the opening of the Museum which had never been properly prepared. A careful revision of the identification and labeling of the invertebrate fossils was made by Mr. Slocum of the Department and at the same time any needed cleaning and restoration of the specimens was performed. The result of this extensive and detailed labor has been to greatly increase the value and improve the appearance of the collections. As the force of preparators in paleontology was increased and more room was needed for their work, the Curator's office and the paleontological laboratory were exchanged in place. The laboratory thus obtained was fitted with storage racks, sink, closet and revolving work tables, and sliding overhead curtains were provided to regulate the light. In the room now occupied as the Curator's office a side window was cut, the room recalcimined, a closet built, and a transfer of bookcases made. The collection of relief maps formerly occupying Halls 60 and 61 was transferred to Halls 75 and



77, these halls together with Hall 68 having been first entirely renovated and repainted. A shelf with iron railing was built entirely around the walls of the halls to provide a means of supporting and exhibiting the maps. In addition twenty iron easels made after designs by the Curator, were provided for the exhibition of maps in the floor space. Four large tables were also provided for displaying small relief maps. In drawers in these tables have been filed the unmounted maps to the number of several hundred. These are now arranged alphabetically and in labeled covers. A total of sixty-two relief maps, large and small, besides globes and wall maps is now displayed in these two halls and the collection is one of the largest of its kind to be found on exhibition in any Museum. The collection of clays, sands and fictile material which formerly occupied Hall 77 was moved to Hall 68, this hall being in turn vacated by consolidating the collection of building stones with that of marbles in Hall 67. Two new cases were added to accommodate an additional series of clays presented by Mr. J. J. Moroney. Some work in reorganizing the clay collection has been done, the principal undertaking being to exhibit in connection with each specimen of clay, briquettes which show the clay before and after burning. When completed this collection will be of great economic interest and value.

The installation of Hall 24, containing the protozoa, sponges and coral collections, has been almost completed. The specimens have been placed in new cases specially built for their display to advantage, not only showing the specimens in the best possible way, but effecting a great economy of space, the collection, as a matter of fact, now occupying about one-half the space it formerly did.

**PHOTOGRAPHY, ILLUSTRATION AND PRINTING.**—The development of these two divisions continues and their importance as factors in Museum work cannot be questioned. The addition of a new Gordon press and a large amount of type has greatly increased the usefulness of the Division of Printing. The number of label forms and other impressions turned out by the printer is shown in the following table:

	Labels.	Other Impressions.
Anthropology, . . . . .	2,295	13,600
Botany, . . . . .	1,166	10,550
Geology, . . . . .	5,207	.....
Zoology, . . . . .	2,991	29,375
Director's Office, . . . . .	13	36,762
Library, . . . . .	....	10,370

A statement of the work done in the Division of Photography appears below:

	Negatives.	Lantern Slides.	Prints.	Enlarge- ments.
Department A, . . .	261	479	5,162	4
Department B, . . .	37	35	41	..
Department G, . . .	127	185	92	..
Department Z, . . .	838	188	789	..
Director's Office, . . .	7	...	109	..
Distribution, . . .	...	...	38	..
Album, Record, etc., . . .	...	...	4,930	..
	1,270	887	11,161	4

**TAXIDERMY AND LABORATORY WORK.**—Laboratory work has been of an exceptionally effective character, and the taxidermists have had a busy and productive year. The magnificent group of red deer exposed to the public about ninety days ago seem to mark the highest point that has been reached in the contribution of scientific illustration upon popular lines. While this group has not, of course, been inspected by the critics at home and abroad whose opinions are of the highest desirability, yet enough is known of their opinion of this piece of scientific art to flatter even so diffident a temperament as that of its creator, Mr. Akeley.

Excellent results have been secured from the persistent working over and the installation of new material in economic botany and paleontology, and the Herbarium has made splendid progress in the identification, classification and arrangement of its abundant material.

In the Osteological laboratory much has been accomplished in the last twelve months. The skeletons of fourteen large mammals have been macerated, degreased and bleached preparatory to mounting. One hundred and twenty large skulls and sixteen smaller ones have been cleaned and prepared for the study collection. A large number of skulls have also been prepared for photographing, the illustrations being needed for the work on "The Mammals of Mexico," now in preparation.

**ATTENDANCE.**—An increase in the attendance approximating 14,000, including 2,500 increase in paid admissions, during the year is the most gratifying evidence that could be given of the growing popularity of the Museum and its increasing interest and consequent usefulness. August 24 marked the fourth largest number of admissions in a single day, 11,000. The analysis of the attendance will be quite interesting. It shows a slight falling off in the attendance of school children and teachers on pay days, but this decrease was co-incident with very inclement weather, in the absence of which the comparative



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attendance at other times shows that in this character of attendance the numbers would have been largely increased. There can be no doubt that the schools of Chicago and Cook County, the public schools as well as universities and colleges, are availing themselves more and more of the facilities of the Museum as teaching adjuncts to the books.

A list is herewith submitted of the classes containing thirty or more scholars that visited the institution during the year just closed. A comparative statement of the attendance in the last two years is also appended:

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Normal—444 West Sixty-ninth st., . . . . .	..	36
Jewish Training School—199 West Twelfth pl., . . . . .	1	35
Emerald Avenue—Emerald ave. and Seventy-ninth st., . . . . .	2	55
River Forest—River Forest, Ill., . . . . .	2	41
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	35
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	3	58
Talcott—West Ohio st., corner Green st., . . . . .	2	44
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . . .	1	70
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	39
Normal—444 West Sixty-ninth st., . . . . .	3	33
Marquette—Wood and Harrison sts., . . . . .	1	39
Cooper—625 West Nineteenth st., . . . . .	2	66
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	34
Komensky—Throop st., corner West Twentieth st., . . . . .	1	40
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	4	74
Harvard—Harvard ave., near Seventy-fourth st., . . . . .	1	37
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	41
Chas. W. Earle—Sixty-first st. and Armitage ave., . . . . .	2	34
Chas. W. Earle—Sixty-first st. and Armitage ave., . . . . .	2	63
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	47
Chas. W. Earle—West Fourteenth pl., corner Johnson st., . . . . .	1	40
Normal—444 West Sixty-ninth st., . . . . .	3	34
Goodrich—West Taylor and Sangamon sts., . . . . .	1	34
O'Toole—Bishop and West Forty-eighth sts., . . . . .	1	32
Goodrich—West Taylor and Sangamon sts., . . . . .	2	58
Yale—Yale ave. and Seventieth st., . . . . .	5	36
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	2	30
Goodrich—West Taylor and Sangamon sts., . . . . .	2	44
University of Chicago, . . . . .	..	30
Chas. W. Earle—Sixty-first st. and Armitage ave., . . . . .	1	38
Mark Sheridan—Twenty-seventh and Wallace sts., . . . . .	3	40
Mark Sheridan—Twenty-seventh and Wallace sts., . . . . .	4	80
Amos L. Barnard—Charles st., corner West 104th st., . . . . .	3	41
Birshaw—Union ave. and West Sixty-fourth st., . . . . .	2	44
Chas. W. Earle—Sixty-first st. and Armitage ave., . . . . .	1	39
Greenwood Avenue—Forty-sixth st., corner Greenwood ave., . . . . .	1	33
University of Chicago, . . . . .	7	45

SCHOOLS AND LOCATION.	Teachers.	Pupils.
John Marshall—West Adams st. and Kedzie ave., . . . . .	2	62
Jewish Training School—199 West Twelfth pl., . . . . .	2	51
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	1	32
Sherwood—Princeton ave. and Fifty-seventh st., . . . . .	1	44
Yale—Yale ave. and Seventieth st., . . . . .	5	36
Chas. W. Earle—Sixty-first st. and Armitage ave., . . . . .	1	39
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	1	62
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	1	40
Normal—444 West Sixty-ninth st., . . . . .	1	33
West Pullman—West 120th and Wallace sts., . . . . .	1	37
Normal—444 West Sixty-ninth st., . . . . .	1	34
Normal—444 West Sixty-ninth st., . . . . .	6	55
Normal—444 West Sixty-ninth st., . . . . .	1	32
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	2	30
Purdue University—Lafayette, Ind., . . . . .	1	40
Yale—Yale ave. and Seventieth st., . . . . .	3	36
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	2	36
Garfield—West Fourteenth pl., corner Johnson st., . . . . .	1	42
Normal—444 West Sixty-ninth st., . . . . .	1	42
Normal—444 West Sixty-ninth st., . . . . .	1	44
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	2	34
Van Vliessen—West 108th pl. and Wentworth ave., . . . . .	1	30
Perkins Bass—West Sixty-sixth st., corner South May st., . . .	1	35
Garfield—West Fourteenth pl., corner Johnson st., . . . . .	1	32
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . .	1	35
Komensky—Throop st., corner West Twentieth st., . . . . .	2	46
Riverside—Hammond, Ind., . . . . .	5	94
Komensky—Throop st., corner West Twentieth st., . . . . .	2	58
Mark Sheridan—Twenty-seventh and Wallace sts., . . . . .	2	47
Prescott—Wrightwood ave., corner North Ashland Ave., . . . .	2	59
Riverside—Hammond, Ind., . . . . .	2	52
Haven—Wabash ave. and Fourteenth st., . . . . .	1	31
Mark Sheridan—Twenty-seventh and Wallace sts., . . . . .	3	75
Prescott—Wrightwood ave., corner North Ashland ave., . . . .	2	40
Josiah L. Pickard—W. Twenty-first pl., corner S. Oakley ave., . .	2	34
O'Toole—Bishop and West Forty-eighth sts., . . . . .	2	33
Mark Sheridan—Twenty-seventh and Wallace sts., . . . . .	1	31
Kershaw—Union ave. and West Sixty-fourth st., . . . . .	1	34
Englewood High—West Sixty-second st., corner Stewart ave., .	1	106
Avondale—Sawyer ave., corner West Wellington st., . . . . .		30
Komensky—Throop st., corner West Twentieth st., . . . . .	4	100
Wells—North Ashland Ave., corner Cornelia ave., . . . . .	2	63
Buckley—West Forty-third st., corner Hermitage ave., . . . .	4	167
Linne—Sacramento ave., corner West School st., . . . . .	2	51
George Dewey—West Fifty-fourth st., corner Union ave., . . . .	2	56
Cornell—Drexel ave. and Seventy-fifth st., . . . . .	2	51
Hermann Raster—Wood st., corner West Seventieth st., . . . .	1	38
Sherman—Morgan st. and West Fifty-first pl., . . . . .	1	53
Chicago Lawn—West Sixty-fifth st. and South Homan ave., . .	1	52
Marquette—Wood st., corner West Harrison st., . . . . .	6	120

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Kershaw—Union ave. and West Sixty-fourth st., . . . . .	2	30
Headley—Lewis st., corner Garfield ave., . . . . .	1	34
St. Patrick's—Commercial ave., corner Ninety-fifth st., . . . . .	1	53
Woodlawn—Lexington ave. and Sixty-fourth st., . . . . .		39
University of Chicago, . . . . .		39
Yale—Yale ave. and Seventieth st., . . . . .	3	43
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . . .	1	76
Hyde Park High—Fifty-seventh st. and Kimbark ave., . . . . .		33

## COMPARATIVE ATTENDANCE

FOR THE YEARS ENDING SEPTEMBER 30, 1901, AND SEPTEMBER 30, 1902.

	Increase.	Decrease.
Total attendance, . . . . .	14,168	...
Paid attendance, . . . . .	2,528	..
Attendance of School Children on pay days, . . . . .	....	1,008
Attendance of Students, . . . . .	615	...
Attendance of Teachers, . . . . .	41	..
Attendance of Members, . . . . .	36	..
Average Daily Attendance, 1901, . . . . .		682
Average Daily Attendance, 1902, . . . . .		719

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,

DIRECTOR.

## FINANCIAL STATEMENT.

### RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1902.

#### RECEIPTS.

Cash in Treasurer's hands, Sept. 30, 1901, . . . . .		\$ 4,652.19
Petty Cash on hand, Sept. 30, 1901, . . . . .		739.95
Dues of Members—		
Corporate, . . . . .	\$ 135.00	
Annual, . . . . .	2,800 00	2,935.00
Admissions and Check Rooms, . . . . .		6,858.90
South Park Commissioners, . . . . .		15,000.00
Chicago City Railway Company, . . . . .		2,250.00
Sale of Guides, . . . . .		333.50
Sundry Receipts, . . . . .		713.47
Interest on Investments, . . . . .		18,979.90
Huntington W. Jackson Estate, . . . . .		971.50
W. J. Chalmers, Special, . . . . .		40.00
Walker & Payne, . . . . .		100.00
Watson F. Blair, . . . . .		300.00
M. A. Ryerson, . . . . .	} Pawnee Expedition, {	300.00
Edward E. Ayer, . . . . .		100 00
Cyrus H. McCormick, . . . . .		300.00
Sale of Securities . . . . .		141,441.67
		\$106,016.08

#### DISBURSEMENTS.

Salaries, . . . . .		\$ 56,680.65
Guard Service, . . . . .		11,857.37
Janitor Service, . . . . .		6,020.16
Fire Protection, . . . . .		2,827.50
Heat and Light—		
Wages, . . . . .	\$ 3,254.92	
Fuel and Supplies, . . . . .	5,418.47	
Additions to Plant, . . . . .	1,594.54	\$ 10,267.93
<i>Carried forward,</i> . . . . .		\$ 88,571.61



<i>Brought forward,</i>		\$ 88,571.61
Repairs and Alterations		
Wages of Carpenters, Painters, Roofers,	11,080 60	
Material used—Paints, Oils, Lumber, Plaster, etc.,	3,008 22	14,088.82
Furniture and Fixtures—		
Cases and Bases, . . . . .	25,020.08	
Sundries, . . . . .	561.53	26,481.61
Library—		
Books and Periodicals, . . . . .	603 90	
Binding, . . . . .	371.00	
Sundries, . . . . .	86.65	1,152.54
Sections of Printing and Photography, . . . . .		1,294.39
Collections and Articles Purchased, . . . . .		22,860.80
Illustration Expenses, . . . . .		3,664.64
General Expense Account—		
Freight, Expressage and Teaming, . . . . .	1,421.94	
Stationery, Postage, Telegrams and Telephone, . . . . .	762.50	
Publications, . . . . .	2,471 11	
Expeditions, . . . . .	18,768.51	
Sundries, . . . . .	1,222.60	24,646.75
		\$182,761.16
B. Treasurer's hands, Sept. 30, 1902, . . . . .	1,089.66	
B. Treasurer's hands, Sept. 30, 1902, Savings Account, . . . . .	983.64	
Cash on hand, Sept. 30, 1902, . . . . .	739.95	
Securities Purchased, . . . . .	7,441.67	13,254.92
		\$196,016.08

## ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1902.

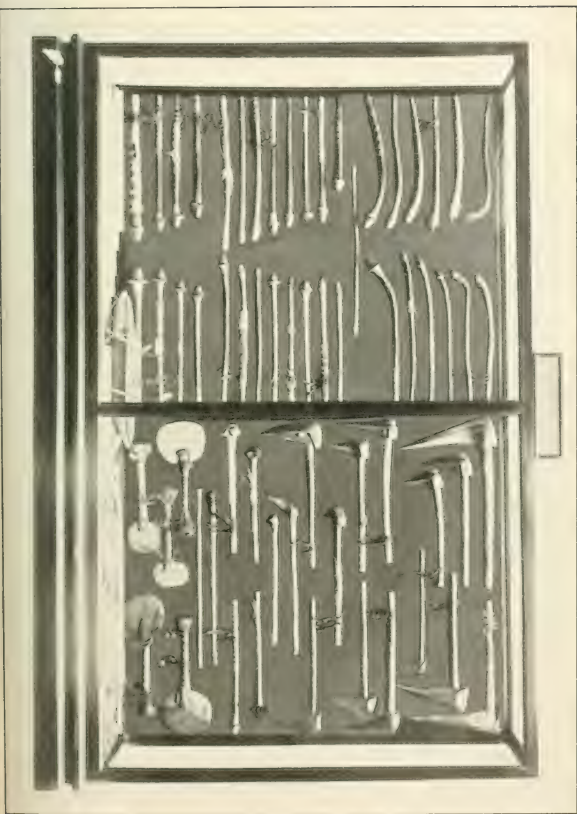
## ATTENDANCE.

Paid attendance—		
Adults, . . . . .	21,676	
Children, . . . . .	1,359	
	—	23,035
Free admissions on pay days—		
School Children, . . . . .	6,849	
Students, . . . . .	2,807	
Teachers, . . . . .	632	
Members—Corporate, . . . . .	14	
Annual, . . . . .	310	
Life, . . . . .	10	
Officers' family, . . . . .	147	
*Special, . . . . .	228	
	—	10,397
Admissions on free days—		
Saturdays, . . . . .	54,986	
Sundays, . . . . .	173,558	
	—	228,544
Total attendance, . . . . .		262,576
Highest attendance on any day (August 24, 1902), . . . . .		10,911
Highest paid attendance on any day (July 4, 1902), . . . . .		522
Average daily admissions (365 days), . . . . .		710
Average paid admissions (261 days), . . . . .		88

## RECEIPTS.

Guides sold—1,334 at 25 cents each, . . . . .	\$ 333.50
Articles checked—26,800 at 5 cents each, . . . . .	1,301.00
Admissions, . . . . .	5,554.00
	\$7,102.40

\*American Society of Naturalists.



LIBRARY  
OF THE  
UNIVERSITY of ILLINOIS

## ACCESSIONS.

FROM OCTOBER 1, 1901, TO SEPTEMBER 30, 1902.

## DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ADAMS, MILWARD, Chicago.

Suit of Japanese armor (exchange).

AMERICAN MUSEUM OF NATURAL HISTORY, New York.

Plaster cast of stone image from Seattle, Wash. (exchange).

BUCKWALTER, F. B., Homer, Neb.

Winnebago peace pipe, catlinite bowl (exchange).

COFFIELD, W. A., Pine Ridge, S. D.

Sioux war bonnet—S. Dakota (exchange).

FIELD COLUMBIAN MUSEUM.

Collected by Geo. A. Dorsey :

Ethnological specimens from the Kickapoo, Pawnee, Arapaho—Oklahoma.

Ethnological specimens from the Pawnee, Oto, Osage—Oklahoma.

Ethnological specimens from the Pawnee—Oklahoma.

Ethnological specimens from the Arapaho, Cheyenne, Kiowa, etc.—Oklahoma.

Collected by J. W. Hudson :

Ethnological collections from N. E. California.

Collected by C. F. Newcombe :

Ethnological specimens from the Tlingit and Haida—Alaska.

Collected by S. C. Simms :

Ethnological specimens from the Crow and Cheyenne—Montana.

2 skeletons—Crow Reservation, Mont.

Buffalo hide shields, buckskin shirts, bows and arrows, etc.—Crow Reservation, Mont.

Purchases :

Double-headed drum, Winnebago—Wisconsin.

Set of Lacondon bows and arrows—Mexico.

Skull and skeleton—San Nicholas Island, Cal.

Stone celt—Cahokia, Ill.

Cheyenne buffalo robe.

Hopi buffalo head dress.

Winnebago war club.

Winnebago war bow.

Winnebago bone knives.

Buffalo hide shield.

Ethnological specimens from the Ovimbundu and the Lovali tribes—West Africa.

Ethnological specimens from the Tlingit stock—Alaska.

Benin bronze heads—Benin, Africa.

Etruscan marble sarcophagi—Italy.

Roman iron garden tools from villa at Boscoreale.

Hopi Indian photographs.

- FIELD, MARSHALL & CO., Chicago.  
Apache necklace of polished stone beads—Arizona (exchange).
- FREE MUSEUM OF SCIENCE AND ART, Philadelphia, Pa.  
Copies of games (exchange).  
Original head dress (exchange).  
Archæological material, pottery, etc.—Pachacamac, Peru (exchange).  
Skeletons of Yankton Sioux—Fort Peck Reservation, Mont. (exchange).
- HAMMOND, CHAS. L., 4627 Greenwood avenue, Chicago.  
Indian book from village of Northern Cheyenne—Wyoming.
- HINSDALE, W. B., Ann Arbor, Mich.  
Ethnological specimens from among the Klamath—California (exchange).
- MOORE, C. B., Philadelphia, Pa.  
Casts of rare stone implements from Alabama and Georgia.
- RODDY, T. R., Chicago.  
Sacred Sioux medicine bags (exchange).  
Snow Snake, Iroquois, sacred lightning medicine of the Winnebago—(exchange).
- SARGENT, HOMER E., Chicago.  
Small water basket (cheeter cup) made by Paiute—Nevada.  
Photographs of Paiute Indians—Nevada.  
Pueblo ceremonial robe of Pueblo Indians, N. M.  
Dress of Hopi Indians, Arizona.
- SCOTT, MRS. J. W., Chicago.  
War bonnet, pair beaded leggings, knife sheath, hair ornaments of horse hair and porcupine quill, of the Sioux (loan).  
Sioux saddle bags.
- SETON-KARR, W. H., Wimbledon, London, England.  
Rude stone implements—Somaliland, Africa.
- SPINK, R. C., Yainac, Oregon.  
Beaver teeth dice game—Klamath Reservation, Oregon (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
Ethnological specimens from the Andaman Islands (exchange).
- WESTON, H. M., Chicago.  
Buckskin dress, beaded (deposit).  
Basket cap (deposit).
- WILSON, R. N., McLeod, Alberta.  
Games, etc., of the Piegan Indians—N. Piegan Reservation (exchange).
- WOHLGEMUTH, CARL, Bozen, Tyrol, Austria.  
Collection of historical relics from Bavaria (exchange).

## DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ADY, G. E. & CO., Denver, Colo.  
12 samples Dent corn—Colorado.
- ARTHUR, J. C., La Fayette, Ind.  
1 specimen *Puccinia Windsoriae* Schw—La Fayette, Ind.
- AYER, MRS. E. E., Chicago.  
1 herbarium specimen—Lake Geneva, Wis.
- BEBB, ROBERT, Washington Heights, Chicago.  
252 herbarium specimens—Illinois, Indiana and Massachusetts.
- BIDWELL, JOSEPH E., Chicago.  
3 samples of standardized corn—Illinois.
- BOTANIC GARDENS, Sydney, Australia.  
13 herbarium specimens—New South Wales (exchange).  
120 herbarium specimens—Australia (exchange).
- BROSS, MASON, Chicago.  
1118 herbarium specimens—various localities.

- BUDGE, ENRIQUE, Buffalo, N. Y.  
110 specimens Chilean fruits and seeds.
- THE CELLULOID CO., New York City.  
35 celluloid effects.  
1 book of "Tex-o-derm."
- CHAMBER OF COMMERCE, Baltimore, Md.  
3 samples of standardized corn—Maryland.
- CHAMBER OF COMMERCE, Boston, Mass.  
5 samples graded corn—Massachusetts.
- CHASE, MRS. AGNES, 5515 Monroe avenue, Chicago.  
3 packages fruits of *Crataegus*, Illinois.  
1 package fruits of *Crataegus*—Illinois.  
171 herbarium specimens—Indiana, Illinois and Michigan.  
2 packages fruits of *Crataegus*—Mokena, Illinois.  
3 upholstery fibers.
- CHASE, V. H., Wady Petra, Illinois.  
14 herbarium specimens—Illinois (exchange).
- DEERING HARVESTER CO., Chicago.  
1 leaf of Sisal hemp—Yucatan.
- DORSEY, GEO. A., Chicago.  
1 cotton cloth—Ancon mummy.  
1 cotton cloth—Peruvian Indians.
- EMRICK, DR. G. M., 5700 Kimbark avenue, Chicago.  
9 specimens dried plants and fruits—Paso del Rio, Mexico.
- ENTORF, RUFFNER & CO., Chicago.  
37 samples coffee types.
- FAIRBANK CO., THE N. K., Chicago.  
25 samples vegetable oil products.
- FIELD COLUMBIAN MUSEUM.  
Collated by Mrs. Agnes Chase:  
10 portions of plants—Missouri Botanical Garden.  
Collated by C. F. Millspaugh:  
14 various graminæ.  
127 portions of plants, tracings and drawings.  
Collected by Charles J. Brand:  
100 herbarium specimens—Bemidji, Minn.  
6 specimens woods—Bemidji, Minn.  
Collected by O. E. Lansing, Jr.:  
56 herbarium specimens—Illinois and Indiana.  
332 herbarium specimens—Illinois and Indiana.  
Collected by S. E. Meek:  
4 herbarium specimens—Ocotlan, Mexico.  
Collected by C. F. Millspaugh:  
57 herbarium specimens—Arizona.
- Purchases:  
84 specimens in plant economics—Mexico.  
1 pint essence of coffee.  
1 sample of kola nuts.  
1 sample of dandelion root.  
4 samples coffee substitutes.  
1 sample cotton root bark.  
1 sample fluid extract cotton root bark.  
19 specimens corn types—Illinois.  
1,522 herbarium specimens—various localities.  
13,000 herbarium specimens—North America and Hawaiian.  
437 herbarium specimens—various localities.  
545 herbarium specimens—Texas and Mexico.  
212 herbarium specimens—Yellowstone National Park.  
1 lacquer box.

- 1 carved bamboo.
- 1 sample cassia oil.
- 1 sample sassafras oil.
- 1 sample cinnamon oil.
- 1 sample hemp seed oil.
- 4 bromide enlargements.
- 4 economic specimens—Cashew seeds, mastich gum, pistach nuts, Chian turpentine.
- MARSHALL FIELD & CO., Chicago.
  - 98 samples various types cotton goods.
- GRAY HERBARIUM, Cambridge, Mass.
  - 1 herbarium specimen—Cuba.
- ITASCA PAPER CO., Grand Rapids, Minn.
  - 14 specimens illustrating paper pulp manufacture.
- KANSAS CORN FEATHER CO., Clinton, Iowa.
  - 1 corn feather mattress.
  - 1 sample corn feathers.
- KATO COFFEE CO., Chicago.
  - 1 bottle coffee fiber.
  - 1 bottle rancid fat.
  - 1 bottle kato.
- MAYERHOFF, DR. PAUL S., Fort Apache, Arizona.
  - 127 Indian plants and economics—Arizona.
- MCDONALD, FRANK E., Peoria, Illinois.
  - 355 herbarium specimens—Illinois (exchange).
- MIDLAND LINSEED OIL CO., Minneapolis, Minn.
  - 12 samples illustrating linseed oil extraction.
- MILLSPAUGH, C. F., Field Columbian Museum.
  - 1 type moss—West Virginia.
  - 1 type flowering plants—West Virginia.
  - 21 herbarium specimens—West Virginia and Mexico.
  - 1 sample French chestnuts.
  - 1 sample French chestnut burrs.
  - 12 samples coffee substitutes.
  - 1 sample Padang coffee.
  - 1 sample German coffee berry—soy beans.
  - 18 drawings and type fragments.
  - 1 package banana cigar wrappers—Porto Rico.
  - 1 quart parched sweet corn.
  - 1 bottle corn stigmas from Hopi corn.
- NEW YORK BOTANICAL GARDEN, Bronx Park, New York.
  - 634 herbarium specimens—Porto Rico (exchange).
  - 48 herbarium specimens (exchange).
- NORTHROP, KING & CO., Minneapolis, Minn.
  - 18 samples typical corn—Minnesota.
- OHIO AGRICULTURAL EXPERIMENT STATION, Wooster, Ohio.
  - 134 herbarium specimens—Ohio (exchange).
- OHIO STATE UNIVERSITY, Columbus, Ohio.
  - 16 specimens fungi exsiccati—Ohio (exchange).
  - 26 specimens fungi exsiccati—Ohio (exchange).
  - 18 specimens fungi exsiccati—Ohio (exchange).
  - 20 specimens fungi exsiccati—Ohio (exchange).
- THE OLD TIMES DISTILLERY CO., Louisville, Ky.
  - 10 specimens illustrating corn whisky.
- PARKE, DAVIS & CO., Detroit, Mich.
  - 126 medicinal roots and herbs.
- THE PHILADELPHIA MUSEUMS, Philadelphia, Pa.
  - 128 economic specimens (exchange).
- POLLARD, C. L., Washington, D. C.
  - 2 herbarium specimens—Cuba.



- RICE, BARTON & FALES, Worcester, Mass.  
2 photographs of fourdrinier.
- SANTAS NUT FOOD CO., Battle Creek, Mich.  
1 package hullless beans.  
1 package bean hulls.  
1 package toasted corn flakes.
- ESTATE OF HIRAM SIBLEY, Sibley, Illinois.  
6 samples corn types—Sibley, Illinois.
- SNOW, MISS L. M., Chicago.  
5 herbarium specimens—Delaware.
- SPRAGUE, WARNER & CO., Chicago.  
1 sample cassia buds.  
1 sample Sargon cassia.  
1 sample Ceylon cinnamon.  
1 sample Java cassia bark.  
1 sample Canton cinnamon.
- THORBURN, J. M. & CO., New York.  
92 specimens typical corn—New York.  
72 specimens typical beans—New York.
- UMBACH, DR. L. M., Naperville, Illinois.  
102 herbarium specimens—Illinois, Indiana and Canada (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
456 herbarium specimens—Florida and Mexico (exchange).  
65 herbarium specimens—various localities (exchange).
- UNIVERSITY OF MINNESOTA, Minneapolis, Minn.  
135 herbarium specimens—North America (exchange).
- VAUGHAN, J. C. & CO., Chicago.  
6 specimens typical corn—Milford, Conn.
- VOTH, H. R., Oraibi, Arizona.  
58 herbarium specimens—Arizona.  
36 specimens corn of the Hopi—Arizona.
- WHITMAN, CLARENCE & CO., Chicago.  
4 samples various grades cotton goods.

## DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BAILEY, MRS. C. A., Rome, N. Y.  
1 relief map.  
1 cast "Welcome" nugget.  
1 cast crustacean track.  
5 casts meteorites.  
1 cast platinum nugget.  
1 lava stalactite.
- BOARMAN, FATHER M. I., Chicago.  
9 specimens volcanic products—Hawaiian Islands.
- BOEDAKER, WILLIAM, 602 117th street, Chicago.  
1 specimen trilobite—*Calymene niagarensis*—Lemont, Ill.
- BOWLAND, MISS M. M., Galion, Ohio.  
2 specimens fossil fishes—Colorado.  
3 specimens fossil plant impressions—Colorado.
- BUDGE, ENRIQUE, Buffalo, N. Y.  
31 specimens minerals and ores—Chile.
- CHALMERS, W. J., 188 Lincoln Park boulevard, Chicago.  
1 specimen tourmaline crystal—California.  
1 section smoky quartz crystal showing zonal structure—Colorado.
- CRANE, W. E., Tarrytown-on-the-Hudson, New York.  
205 specimens Paleozoic fossils (50 species), (exchange).

## CONSOLIDATED MINES, Kimberley, South Africa.

25 photographs, illustrating diamond mining.

## DELAWARE, LACKAWANNA &amp; WESTERN RAILROAD, Scranton, Pa.

1 stump of tree of the Carboniferous period, diameter at base 2 feet, height  $2\frac{1}{2}$  feet.

## DERR, H. B., Champaign, Ill.

1 photograph of *Ptychophyllum stokesii*, Niagara limestone, Chicago.

## ELDRIDGE, E. W., Chicago.

3 specimens graphite—Colorado.

## FARGO, DR. J. F., Los Angeles, Cal.

2 specimens crystallized corundum in matrix—California.

1 specimen opal—California.

1 specimen axinite—Japan (exchange).

## FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington:

162 specimens minerals, beryl, orthoclase, tourmaline, bertrandite, etc.—Maine.

Collected by O. C. Farrington and A. W. Slocum:

8 specimens bitumen in limestone, 5 specimens fossils, 1 specimen pyrite—Thornton, Ill.

2 species fossil fish teeth, 2 species crinoids, 1 species coral, 1 glaciated pebble—Elmhurst, Ill.

Collected by L. V. Kenkel:

1 specimen marcasite concretion—Chicago.

1 specimen banded jasper—Wauconda, Ill.

Collected by H. W. Nichols:

28 specimens ores of the Black Hills, S. D., and Laramie Mountains, Wyo.

1 specimen zinc ore—Tennessee.

1 specimen graphite—Wyoming.

Collected by E. S. Riggs:

14 specimens of fossil shells (2 species)—Illinois.

1 specimen adobe clay—Colorado.

9 specimens cement rock clays and their products—North Dakota.

24 vertebræ of *Morosaurus* and *Plesiosaurus*, 10 invertebrate fossils—North Dakota.

Purchases:

2 pyrite "suns."

1 specimen pyrite on slate.

2 specimens anorthite.

1 specimen sulphur.

1 specimen gold—North Carolina.

1 section of Casas Grandes meteorite.

1 relief map of Porto Rico.

1 relief map of Hawaiian Islands.

1 relief map of Niagara Falls.

18 specimens celestite crystals.

2 specimens sulphur.

2 specimens crystallized epidote.

47 grams Agen meteorite.

85 grams Lancon meteorite.

15 mineral specimens—various localities.

Skull of *Hyracodon*—South Dakota.

Saline Township, Kansas, meteorite.

92 specimens vertebrate fossils—Wyoming and Alaska.

28 specimens Upper Silurian and Devonian fishes—Scotland.

20 specimens minerals.

2 tusks of mammoth—Alaska.

1 relief map showing stages of recession of Lake Chicago.

8 bromide enlargements.

## FOHRMAN, CHAS. A., Chicago.

1 specimen covellite—Wyoming.

- FOOTE MINERAL CO., Philadelphia, Pa.  
1 section of amethyst crystal—Brazil (exchange).
- GARDNER, JOHN L., JR., Boston, Mass.  
1 negative and print of beryl crystal.
- GOODSELL, B. W., Chicago.  
8 specimens copper ore, 2 specimens gold ore, 1 specimen corundum—United States and Canada.
- JOHNSON, E. C., Hill City, South Dakota.  
1 specimen of tin ore, weighing 200 lbs.—Gertie mine, Black Hills.
- KING, IRVING, Chicago.  
3 species fossil ostrea, 1 species fossil coral, 1 species fossil foraminifera—Natchitoches, La.
- MILLS, A. C., 5613 Kimbark avenue, Chicago.  
1 specimen post-glacial conglomerate—Wabash, Ind.
- MORONEY, J. J., Chicago.  
71 specimens briquettes, 11 specimens clays.
- PHILLIPS, DR. W. B., Austin, Texas.  
2 specimens mercury ore.  
2 specimens country rock of same.
- PIERCE, H. B., Golconda, Ill.  
6 specimens fluorite, 2 specimens sphalerite, 1 specimen smithsonite, 1 specimen galena—Illinois.
- ROMANO, JOSEPH, Austin, Ill.  
1 specimen limonite concretion.
- SHAFFER, SILAS A., Assumption, Ill.  
2 blocks of bituminous coal from 1,000 foot level, upper and lower veins—Assumption, Ill.
- SLOCOM, A. W., Chicago.  
347 specimens fossils (55 species), 4 specimens rocks, 3 specimens minerals, (loan).
- STATE SCHOOL OF MINES, Golden, Colorado.  
17 specimens rocks, 18 specimens minerals—Colorado and Minnesota (exchange).
- STURTEVANT, G. W., Chicago.  
6 specimens gold and silver ores—Arizona.
- UNITED STATES MARBLE CO., Spokane, Washington.  
5 specimens marble—Washington.
- UNIVERSITY OF CHICAGO, Chicago.  
177 specimens fossils (18 species)—Utah and Indiana.
- UNIVERSITY OF WISCONSIN, Madison, Wis.  
1 polished section of Algoma meteorite, 6½ grams—Algoma, Wis., (exchange).  
1 cast of Algoma meteorite (exchange).
- WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.  
13 specimens modern crinoids, brachiopods and echinoderms (exchange).  
1 skeleton of lizard (exchange).  
1 skull of peccary (exchange).
- WEBER, DR. F. C., Chicago.  
1 specimen ferro-titanium-bor.

## DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- CLARK, H. W., Chicago.  
1 lesser scaup duck—Jackson Park, Chicago.
- DEARBORN, N., Chicago.  
6 bird skins—New Hampshire.

## FIELD COLUMBIAN MUSEUM.

Collected by Geo. F. Breninger:

232 bird skins—Chihuahua, Mexico.

515 bird skins—Mexico.

487 bird skins—Mexico.

65 bird skins—Mexico.

2 bird skins, 163 bird's eggs—Mexico.

186 bird skins—Mexico.

Collected by E. B. Chope:

1 Maryland yellowthroat.

1 Northern shrike.

2 sora.

Purchased:

1 hooded merganser—Browning, Illinois.

20 bird skins.

1 ring-necked duck.

1 scaup duck.

1 widgeon.

2 plantain eaters, 1 hornbill, 1 heron, 2 hawks—Cameroons, West Africa.

GERHARD, WM. J., Chicago.

1 Tennessee warbler—Illinois.

1 flicker—Illinois.

KENNICOTT, H., The Grove, Illinois.

1 shoveler duck—Illinois.

McCORMICK, R. H., Virginia Hotel, Chicago.

1 Owens apteryx.

1 owl parrot.

SCHAUB, MRS. J. W., Chicago.

1 rose-colored cockatoo.

## DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AMERICAN MUSEUM OF NATURAL HISTORY, New York.

1 skeleton European red deer (exchange).

BEAN, DR. T. H., Washington, D. C.

1 mole—Long Island, New York.

93 fishes, 5 snakes, 2 turtles, 2 frogs, 1 crab, 3 shrimps—Long Island, New York.

3 fishes—Long Island, New York.

BRIND, W. L., 4001 Grand boulevard, Chicago.

3 snakes—South Chicago, Ill.

CHAMBERLIN, R. V., Brighton, Utah.

1 centipede—Utah.

CHOPE, E. B., Field Columbian Museum.

446 beetles, 5 ichneumon flies—various localities.

1 spider's nest—Chicago.

53 beetles, 6 flies, 4 bugs—various localities.

1 cockroach, 32 bugs, 16 flies, 20 bees and wasps, 4 grasshoppers, 1 beetle—Chicago.

1 wasp, 1 fly, 10 bugs, 116 beetles, 1 moth—Chicago.

61 bees and wasps, 13 flies, 12 beetles, 2 bugs—Chicago.

9 flies, 2 grasshoppers, 22 bees and wasps, 1 bug, 42 beetles—Chicago.

3 bugs, 1 katydid, 1 wasp, 1 fly, 3 beetles, 12 grasshoppers—Russell, Ala.

6 flies, 29 beetles, 3 bugs, 2 butterflies—Illinois.

13 flies, 11 bees and wasps, 1 moth, 1 beetle, 3 bugs, 2 butterflies, 1 ant—Chicago.

6 flies, 1 bee—Chicago.

CLARK, H. W., Field Columbian Museum.

- 1 bug—Chicago.
- 2 dragonflies, 2 beetles, 2 fungusflies—Chicago.
- 1 beetle, 2 moths—Chicago.

CORY, C. B., Boston, Mass.

- 1 rabbit—Mexico.
- 1 squirrel—Mexico.

DEARBORN, N., Field Columbian Museum.

- 1 fly—Chicago.

DOHMEN, U. A., Field Columbian Museum.

- 2 flies, 1 beetle—Chicago.
- 1 beetle—Roby, Ind.

DRUMMOND, GEO. H., Chicago.

- 1 waterbug—Chicago.

ELLIOT, D. G., Field Columbian Museum.

- 1 beetle—Chicago.

FIELD COLUMBIAN MUSEUM.

Collected by Geo. F. Breninger:

- 5 squirrels, 4 chipmunks—Mexico.

Collected by Wm. J. Gerhard:

- 106 specimens bugs, beetles, flies, grasshoppers, bees, etc.—Chicago.
- 114 specimens butterflies, bees, wasps, flies, beetles and bugs—Chicago.
- 100 specimens grasshoppers, butterflies, bees, wasps, flies, beetles, moths, etc.—Chicago.
- 73 specimens mayflies, moths, butterflies, bees, wasps, beetles, bugs, etc.—Chicago.
- 53 specimens moths, flies, cockroaches, bees, wasps, etc.—Chicago.
- 10 specimens cockroaches, butterflies, dragonflies, flies, bees, wasps and beetles—Miller, Ind.
- 138 specimens moths, beetles, roaches, bugs, flies, grasshoppers, bees, wasps, etc.—Chicago.
- 91 specimens bugs, beetles, moths, flies, etc.—Chicago.
- 159 specimens grasshoppers, moths, butterflies, flies, beetles, bees and wasps—Glen Ellyn, Ill.
- 77 specimens beetles, moths, flies, butterflies, dragonflies, wasps, etc.—Chicago.
- 89 specimens caddiceflies, bugs, beetles, moths, dragonflies, bees, wasps, etc.—Chicago.
- 37 specimens butterflies, moths, bugs, flies, bees and wasps—Riverdale, Illinois.
- 170 specimens caddiceflies, mayflies, beetles, moths, butterflies, bees, wasps, etc.—Chicago.
- 276 specimens dragonflies, caddiceflies, bugs, moths, beetles, bees, wasps, etc.—Chicago.
- 1 bat—Willow Springs, Ill.
- 1 cricket, 29 moths—Chicago.
- 148 specimens moths, butterflies, bees, wasps, grasshoppers, waterbug, flies, etc.—Riverside and Chicago, Ill.
- 72 specimens parasites, lacewings, leafhoppers, flies, moths, caterpillars, butterflies, bees, etc.—Chicago and Beverly Hills, Ill.
- 75 specimens moths, flies, beetles, grasshoppers, bees, wasps, parasites, etc.—Chicago and Maywood, Ill.
- 64 specimens flies, moths, scorpion fly, bees, wasps, caterpillars, parasites, etc.—Chicago.
- 133 specimens beetles, flies, bugs, moths, dragonflies, bees, wasps, etc.—Chicago and West Pullman, Ill.
- 1 gopher—Willow Springs, Ill.
- 65 specimens moths, flies, butterflies, beetles, bees, wasps and bugs—Beverly Hills, Ill.
- 66 specimens moths, scorpion flies, grasshoppers, beetles, bees, wasps, etc.—various localities.

- 65 specimens parasites, sawflies, scorpionflies, beetles, gall insects, etc.—Illinois.  
 163 specimens moths, parasites, bugs, bees, wasps, etc.—Illinois.  
 43 specimens beetles, moths, wasps, bees, grasshoppers, butterflies, etc.—Illinois.  
 20 specimens bugs, flies, hemerobians, beetles, bees and wasps—Chicago.
- Collected by E. Heller:  
 28 specimens snakes and lizards—California.  
 2 black-tailed deer—California.  
 178 specimens skunks, rabbits, weasels, minks, squirrels, moles, shrews, mice, gophers, chipmunks, etc.—Oregon.  
 3 polecats, 2 squirrels, 2 shrews, 13 pouch rats, 4 rabbits, 2 wood rats, 1 muskrat, 1 weasel—Oregon.  
 16 snakes, 1 lizard—Oregon.  
 2 snakes, 2 lizards—Oregon.  
 149 rodents—Oregon.  
 43 rodents—Mexico.  
 8 rabbits, 7 foxes, 1 antelope, 4 bats, 219 rodents—Mexico.  
 1 scorpion—California.  
 13 rodents—Mexico.  
 15 ground squirrels, 17 bats, 2 foxes, 2 rabbits, 15 wood rats, 5 jumping rats, 10 gophers, 101 mice, 13 sheep, 5 deer—Mexico.  
 1 bat—Mexico.  
 9 snakes, 95 lizards, 1 toad, 4 fishes—Lower California.  
 7 horned toads, 91 lizards, 7 snakes, 100 fishes—Lower California.
- Collected by F. E. Lutz:  
 1 beetle, 1 male cricket, 1 centipede, one dragon-fly lava—Mexico.  
 2 beetles, 8 bugs, 1 dragon-fly lava—Mexico.  
 1 bug, 1 tarantula, 5 scorpions—Mexico.  
 6 water bugs, 9 water beetles—Mexico.  
 1 water bug—Mexico.  
 2 water bugs—Mexico.  
 18 grasshoppers, 1 diggerwasps, 6 beetles, 17 bugs, 50 mosquitoes—Mexico.  
 95 cockroaches, 1 grasshopper, 11 crickets, 1 velvet ant—Mexico.  
 1 water bug—Mexico.
- Collected by W. E. Snyder:  
 35 rodents—N. Dakota.  
 17 ground squirrels, 1 badger, 1 rabbit, 3 gophers, 13 mice—N. Dakota.  
 16 rodents—N. Dakota.  
 49 rodents, 1 insectivora, 1 carnivora—N. Dakota.  
 30 rodents—Steele, N. Dakota.  
 83 rodents, 2 bats—N. Dakota.
- Purchases:  
 7 rat and weasel skins, 6 skeletons—W. Va.  
 6 mountain goat—Alaska.  
 1 moose skin and skull.  
 19 skulls of mink, marten and otter.  
 21 mammal skins and skulls.  
 1 wolf skin and skull.  
 6 ourang-outang skulls.  
 49 moths, 138 dragon-flies, 1012 bees and wasps, 95 grasshoppers, 123 flies, 832 beetles.  
 1 bull moose, 2 cow moose, 1 yearling—Alaska.  
 1 rabbit, 1 badger, 4 hares, 5 weasels, 8 mice, 1 rat, 3 woodchucks, 18 ground squirrels—Canada.  
 8 bats, 3 shrews—N. W. Territory.  
 3 grizzly bear skins and skulls, 1 brown bear skull—Alaska.  
 2 white foxes, 2 blue foxes, 4 rabbits, 1 seal.  
 1 moose skin and skull—Alaska.  
 6 gophers, 4 rats, 21 mice, 4 jumping mice, 4 ground squirrels—California.  
 9 rats, 29 mice, 2 ground squirrels.  
 4 caribou—British Columbia.  
 4 squirrels, 1 weasel.

- 4 rats, 2 jumping rats, 2 pocket rats, 6 mice, 1 armadillo, 1 wolf, 1 fox.
- 6 monkey skins and skulls.
- 1 blue bear skin.
- 4 kangaroo rats.
- 5 beaver skins.
- 2 bear skins and skulls.
- 1 skeleton of New Zealand lizard.
- 2 fishes, 1 timber wolf—Michigan.
- 13 tiger beetles—various localities.
- 5 antelope, 3 monkeys, 2 flying squirrels, 2 rats, 4 mice.
- 140 specimens fishes (42 species).
- 24 cave bats—Cuba.
- 6 sable, 3 mink, 2 foxes, 6 lynx, 2 wolverines, 3 otters, 1 caribou—Alaska.

# FISH, CARL, Harrisburg, Neb.

- 1 beetle—Nebraska.
- 1 snake—Nebraska.

# GERHARD, WM. J., Field Columbian Museum.

- 113 moths, 282 butterflies—various localities.
- 111 specimens beetles, flies, grasshoppers, bugs, bees, wasps, etc.—New York.

# HALL, MISS JENNIE, 5445 Drexel avenue, Chicago.

- 2 scorpions (in alcohol)—Texas.

# HELLER, E., Field Columbian Museum.

- 51 rodents and insectivores—Oregon.
- 49 mammal skins—California.

# HARRIS, MRS. JOSEPH, 4732 Lake avenue, Chicago.

- 1 dragon fly—Chicago.

# HART, W. H., New York.

- 3 bear skulls—Mexico.

# KENKEL, L. V., Field Columbian Museum.

- 1 wasp's nest—Chicago.
- 1 dragon fly—Chicago.
- 18 specimens bugs, beetles, bees, wasps, flies, moths—Illinois.
- 3 bats—Chicago.
- 1 centipede, 1 water bug—Chicago.

# KENNEDY, VERNON SHAW, 3524 Michigan avenue, Chicago.

- 2 bears, 5 pumas, 4 foxes, 3 lynx—Mexico.
- 1 bear skin and skull.

# KREKO BROS. Armenia.

- 1 camel.

# LINDAHL, SETH, 53 75th street, Chicago.

- 696 beetles—various localities.

# LUTZ, F. E., Chicago.

- 6 mice—Chicago.
- 1 wood rat, 1 porpoise skull—Mississippi.

# MASON, C. K., Field Columbian Museum.

- 1 ground wasp—Chicago.

# MEARNS, DR. EDGAR A., Newport, R. I.

- 4217 specimens shells (37 species)—Newport, R. I.

# MEEK, S. E., Field Columbian Museum.

- 1 wasp—Chicago.

# MILLSPAUGH, CHAS. F., Field Columbian Museum.

- 125 specimens weevils, parasites, beetles, flies, etc.
- 2 pea weevils.
- 108 specimens flies, beetles, pea weevils, ichneumon flies—various localities.
- 207 specimens dragon flies, moths, butterflies, bees, wasps, bugs and beetles—Colorado.
- 228 specimens beetles—various localities.
- 7 beetles—Mexico.
- 1 moth—Chicago.

MILWAUKEE PUBLIC MUSEUM, Milwaukee, Wis.

3 killifishes—Florida.

MUNZNER, H., Chicago.

1 beetle—Harvey, Ill.

NORRIS, PHILIP, Field Columbian Museum.

1 beetle—Chicago.

1 dragon-fly, 1 fly, 2 beetles—Chicago.

PEDERSEN, J. K., Field Columbian Museum.

1 ground squirrel—Chicago.

PETERSEN, J. F., Field Columbian Museum.

33 specimens beetles, flies, saw-flies, ant, etc.—Chicago.

17 specimens flies, grasshoppers, saw-flies, etc.—Chicago.

21 specimens butterflies, bees, wasps, bugs—Chicago.

21 specimens grasshoppers, flies, bees, wasps—Chicago.

SLOCOM, A. W., Field Columbian Museum.

1 bumblebee, 1 butterfly, 4 beetles—Illinois.

1 bat—Chicago.

1 wasp, 1 centipede, 1 spider, 1 ichneumon fly—Illinois.

1 velvet ant—Chicago.

SPAULDING & CO., Chicago.

69 specimens pearl-bearing shells from Wisconsin.

1 shell showing some peculiar pearl formation—Wisconsin.

STANFORD UNIVERSITY, California.

Collection of fishes from Brazil and Japan, comprising 100 specimens (exchange).

STONE, FRANK B., Chicago.

4 beetles—California.

2 beetles—Mexico.

TIEMANN, B., Field Columbian Museum.

1 beetle—Chicago.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

1 fish—Mexico.

1 bat, 1 mouse (exchange).

2 fishes—Mexico.

1 fish—Kentucky.

VIERECK, HENRY, Philadelphia, Pa.

2 seventeen-year bicadas.

1 nymph case of the same species.

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.

26 sponges, 2 corals, 1 crinoid, 1 star fish, 1 sea urchin, 7 sea cucumbers,

3 worms, 2 tunicates (exchange).

WHITE, E. N., Chicago.

2 parasites—Chicago.

WILLIAMSON, E. B., Salem, Ohio.

6 fishes—Ohio.

## SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by Chas. J. Brand:

60 negatives, North American forestry.

Made by Geo. A. Dorsey:

126 negatives, Indians of Arizona and New Mexico.

522 negatives, Indians of Indian Territory and New Mexico.

Made by O. C. Farrington:

36 negatives, views of landscapes, etc.—Maine and New Hampshire.



- Made by J. W. Hudson:  
 84 negatives, California Indians.  
 144 negatives, California Indians.
- Made by S. C. Simms:  
 66 negatives, of Crow Indians.
- Purchases:  
 34 lantern slides on Economic Geology.

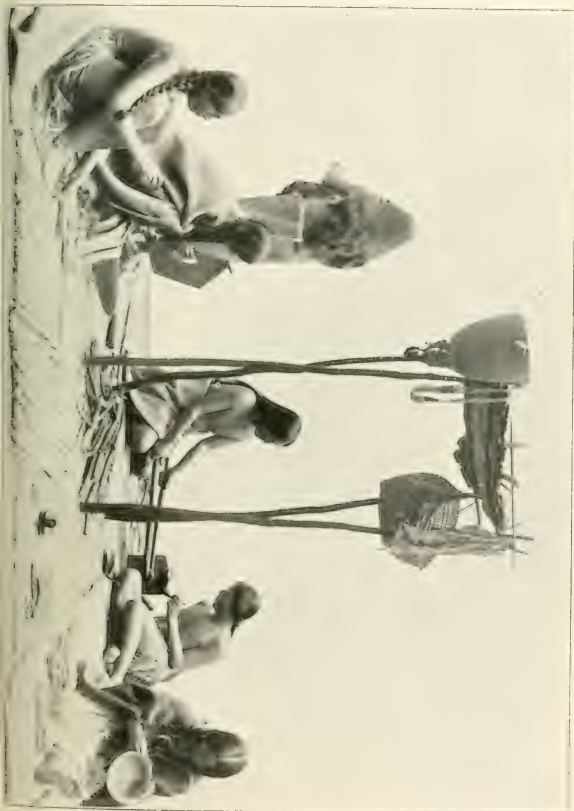
## THE LIBRARY.

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### *Books, Pamphlets and Serials.*

- ABERDEEN UNIVERSITY, MARISCHAL COLLEGE, Aberdeen, Scotland.  
 1 pamphlet.
- ADAMS, C. C. (the author), Chicago, Ill.  
 3 reprints.
- ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.  
 Bulletins, 43 back nos. and current nos. (gift).
- ALABAMA GEOLOGICAL SURVEY, University, Ala.  
 Charles Mohr: Plant life of Alabama.
- AMBROSETTI, JUAN B. (the author), Buenos Aires, Argentina.  
 4 reprints.
- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.  
 Proceedings, current nos.
- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.  
 Proceedings, vol. 14, pts. 1 and 2.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,  
 Pittsburg, Pa.  
 Proceedings, Denver meeting, vol. 50.
- AMERICAN BUREAU OF GEOGRAPHY, Winona, Minn.  
 Bulletin, vol. 1, nos. 1, 3 and 4, vol. 2.
- AMERICAN CHEMICAL JOURNAL, Baltimore, Md.  
 Journal, current nos.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.  
 Journal, Nos. 54-57.
- AMERICAN FORESTRY ASSOCIATION, Washington, D. C.  
 Forestry and irrigation, current nos.
- AMERICAN GEOGRAPHICAL SOCIETY, New York City.  
 Bulletin, current nos.
- AMERICAN INSTITUTE OF HOMEOPATHY, New York City.  
 Transactions, vol. 57, 1901.
- AMERICAN JOURNAL OF PHARMACY, Philadelphia, Pa.  
 Journal, current nos.
- AMERICAN MICROSCOPICAL SOCIETY, Washington, D. C.  
 Journal, current nos.
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.  
 Annual report, 1901.  
 Bulletin, vol. 11, pt. 4.  
 Bulletin, vol. 14.  
 Bulletin, vol. 15, pt. 1.  
 Memoirs, vol. 3 and 6.
- AMERICAN NUMISMATIC AND ARCHEOLOGICAL SOCIETY, New  
 York City.  
 Proceedings and papers, 43d and 44th meetings.

- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.  
 Index, vols. 1-20.  
 Journal, vol. 21, pt. 1.  
 Journal, vol. 22, pt. 2.  
 Journal, vol. 23, pt. 1.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.  
 Proceedings, vol. 40, nos. 167-169.
- AMERICAN SOAP JOURNAL, Milwaukee, Wis.  
 Journal, current nos. (gift).
- AMSTERDAM. KONIGLICHE AKADEMIE VAN WETENSCHAPPEN,  
 Amsterdam, Netherlands.  
 Proceedings, section of sciences, vol. 3.  
 Verhandelingen, vol. 7, nos. 4-6.  
 Verslag, vol. 9.
- AMSTERDAM. UNIVERSITEITS BIBLIOTHEEK, Amsterdam, Netherlands  
 12 inaugural dissertations.
- ANDOVER THEOLOGICAL SEMINARY, Andover, Mass.  
 Catalogue, 1901-1902.
- ANDREE, RICHARD, Braunschweig, Germany.  
 Globus, vols. 80 and 81.
- ANGERS. SOCIETE d'ETUDE SCIENTIFIQUES, Angers, Maine-et-Loire,  
 France.  
 Bulletin, vol. 30.
- ANNALES DES MINES, Paris, France.  
 Annales, current nos.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRE-  
 LAND, London, England.  
 Journal, current nos.
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Arizona.  
 Annual report, 9, 10, 11, 12.  
 Bulletin, current nos.
- ARKANSAS AGRICULTURAL EXPERIMENT STATION, Fayetteville,  
 Arkansas.  
 Bulletin, no. 36.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill.  
 Year book, 1902-03.
- ARTHUR, J. C. (the author), Lafayette, Indiana.  
 4 reprints.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.  
 Journal, current nos.  
 Proceedings, current nos.
- ASSOCIATION OF AMERICAN ANATOMISTS, Washington, D. C.  
 History, constitution, membership, and the letters and abstracts of papers,  
 for the years 1888-1892.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia, Pa.  
 Journal, current nos.
- AUSTRALIAN MUSEUM, Sydney, Australia.  
 Nests and eggs of birds found breeding in Australia and Tasmania.  
 Records, current nos.  
 Report of the curator, 1900.  
 Report of the trustees, 1900.
- AUTOMOBILE REVIEW, Chicago, Ill.  
 Journal, current nos. (gift).
- BALTIMORE AND OHIO RAILROAD CO., Baltimore, Md.  
 Book of the royal blue, current nos. (gift).
- BAMBERG. NATURFORSCHENDE GESELLSCHAFT, Bamberg, Germany.  
 Bericht, vol. 18.



LIBRARY  
OF THE  
UNIVERSITY OF ILLINOIS

- BARLOW, CHESTER, Santa Clara, California.  
List of the land birds of Placerville, California (gift).
- BARROWS, D. P., Chicago, Ill.  
1 pamphlet.
- BASEL-NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.  
Namenverzeichnis und sachregister der band 6-12.  
Verhandlungen, Band 13, pt. 2 and 3.  
Verhandlungen, Band 14.
- BEAN, T. H., Washington, D. C.  
Report of the department of forestry and fisheries, Paris Exposition, 1900.
- BELOIT COLLEGE, Beloit, Wisconsin.  
Catalogue, 1901-02.
- BERGENS MUSEUM, Bergen, Norway.  
Aarbog, 1901, pt. 1 and 2.  
Aarsberetning, 1901.
- BERLIN. GESELLSCHAFT FUR ERDKUNDE, Berlin, Germany.  
Bibliotheca geographica, vol. 7.  
Verhandlungen, current nos.  
Zeitschrift, current nos.
- BERLIN. KÖNIGLICHE BIBLIOTHEK, Berlin, Germany.  
Jahres verzeichniss der an den deutschen universitäten erscheinenden  
schriften, vol. 16.
- BERLIN. K. BOTANISCHER GARTEN UND MUSEUM, Berlin, Germany.  
Appendix 9.  
Notizblatt, no. 29.
- BERLIN. KÖNIGLICHE MUSEEN, Berlin, Germany.  
Führer, 1901.
- BERLIN. K. MUSEUM FUR VOLKERKUNDE, Berlin, Germany.  
Ethnologische notizblatt, current nos.
- BERLIN. K. PREUSSISCHE AKADEMIE DER WISSENSCHAFTEN,  
Berlin, Germany.  
Sitzungsberichte, current nos.
- BERLINER GESELLSCHAFT FUR ANTHROPOLOGIE, Berlin, Germany.  
Zeitschrift für ethnologie, current nos.
- BERN. HOCHSCHUL BIBLIOTHEK, Bern, Switzerland  
32 inaugural dissertations.
- BERNICE PAUCHI BISHOP MUSEUM, Honolulu, Hawaii.  
Fauna Hawaiensis, vol. 3, pt. 1.  
Memoirs, vol. 1, no. 3.  
Occasional papers, vol. 1, nos. 3 and 4.
- BERTONI, M. S. (the author), Asuncion, Paraguay.  
Aves nuevas del Paraguay (gift).
- BINBY, MAYNARD (the author), Salt Lake City, Utah.  
Utah minerals and localities (gift).
- BLACK DIAMOND COMPANY, Chicago, Ill.  
Black diamond, current nos. (gift).
- BOMBAY PRESIDENCY. DEPARTMENT OF LAND RECORDS AND  
AGRICULTURE, Bombay, India.  
Crop experiments report, 1899-1900, 1900-1901.
- BORDEAUX. SOCIÉTÉ LINNÉENNE, Bordeaux, France.  
Procès-verbaux, 1901.
- BOSTON BOOK COMPANY, Boston, Mass.  
Bulletin, current nos. (gift).
- BOSTON MUSEUM OF FINE ARTS, Boston, Mass.  
Annual report, 26.

- BOSTON PUBLIC LIBRARY, Boston, Mass.  
Annual list of new and important books, 1900-1901.  
Monthly bulletin, current nos.
- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Mass.  
Proceedings, current nos.
- BOSTON TRANSIT COMMISSION, Boston, Mass.  
Annual report, 7th, 1901.
- BOSTON UNIVERSITY, Boston, Mass.  
President's annual report, 1901.  
Yearbook, vol. 28.
- BOTANICAL SOCIETY OF AMERICA, New York City.  
Publication, 18 (gift).
- BOUCARD, A. (the author), Oak Hill, Spring Vale, Isle of Wight.  
Catalogus avium.  
Genera of humming birds.  
The Humming Bird, vols. 1-5.  
Travels of a naturalist.  
35 pamphlets.  
1 photograph.
- BOWDITCH, C. P. (the author), Boston, Mass.  
2 reprints.
- BOWDOIN COLLEGE, Brunswick, Me.  
Catalogue, 1901-02.  
President's report, 1901-02.
- BRISTOL MUSEUM AND REFERENCE LIBRARY, Bristol, England.  
Report, 1901.
- BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,  
London, England.  
Report, 1901.
- BRITISH COLUMBIA GOVERNMENT PRINTING OFFICE, Victoria, B. C.  
Sessional papers, 1901.  
Statutes of British Columbia, 1901, 1902 (gift).
- BRITISH MUSEUM (NATURAL HISTORY), London, England.  
Catalogue of African plants, vol. 1, pt. 4.  
Catalogue of African plants, vol. 2, pt. 2.
- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, N. Y.  
Prospectus, 1901-1902, 1902-1903.  
Yearbook, 1898-1899, 1899-1900, 1900-1901.
- BROWN UNIVERSITY, Providence, R. I.  
Annual report, 1901-02.
- BRUXELLES. ACADEMIE ROYALE DE BELGIQUE, Bruxelles, Belgium.  
Annuaire, 1902.  
Bulletin, 1901.
- BRUXELLES. INSTITUT GEOGRAPHIQUE, Bruxelles, Belgium.  
Publications, nos. 2-7 (gift).
- BRUXELLES. SOCIETE D'ARCHEOLOGIE, Bruxelles, Belgium.  
Annuaire, 1901, vol. 13.
- BRUXELLES. SOCIETE ROYALE LINNEENNE, Bruxelles, Belgium.  
Bulletin, current nos.
- BRYN MAWR COLLEGE, Bryn Mawr, Pa.  
Program, 1901-02.
- BUFFALO PUBLIC LIBRARY, Buffalo, N. Y.  
Annual report, 1901.
- BUITENZORG. L'INSTITUTE BOTANIQUE, Buitenzorg, Java.  
Bolletin, no. 13.
- BUENOS AIRES. MUSEO NACIONAL, Buenos Aires, Argentina.  
Comunicaciones, current nos.
- BUSSEY INSTITUTION, Jamaica Plain, Mass.  
Bulletin, vol. 3, pt. 2.

- CALIFORNIA ACADEMY OF SCIENCES. San Francisco, Cal.  
Proceedings, current nos.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION, Davis, Cal.  
Bulletin, 46 back nos. and current nos.  
Natural study bulletin.  
Report, 1898-1901.
- CALIFORNIA STATE LIBRARY, Sacramento, Cal.  
Bulletin, current nos.
- CALIFORNIA UNIVERSITY, Berkeley, Cal.  
Bulletin of the Dep't of Geology, vol. 2, Nos. 10, 11 and 12.  
University chronicle, current nos.
- CAMBRIDGE PUBLIC LIBRARY, Cambridge, Mass.  
Annual report, 1901.  
Bulletin, current nos.
- CAMBRIDGE UNIVERSITY MUSEUM OF ZOOLOGY, Cambridge, Eng. and  
America, report of the Museum and Lecture Room Syndicate, 1900-1901.  
1871-1874, 1877-1894, 1901-02.  
Catalogue of Strickland collection of birds.
- CANADA DEPARTMENT OF MARINE AND FISHERIES, Ottawa, Canada.  
Annual report, 33d.
- CANADA GEOLOGICAL SURVEY, Ottawa, Canada.  
Annual report, 1898.  
Catalogue of Canadian birds pt. 1.  
Index to reports of the Geological Survey, 1863-1884.
- CANADIAN INSTITUTE, Toronto, Canada.  
Archæological report, 1900, 1901.
- CAPE GOVERNMENT HERBARIUM, Cape Town, South Africa.  
Report of the botanist, 1901.
- CAPE TOWN GEOLOGICAL COMMISSION, Cape Town, South Africa.  
Annual report, 1898-99.
- CAPITAN, L., Paris, France.  
1 reprint.
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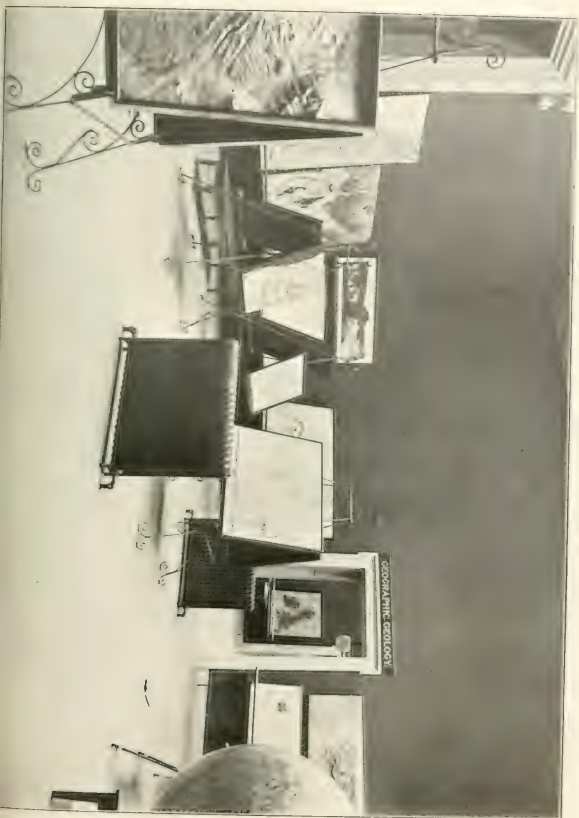
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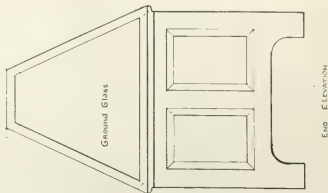
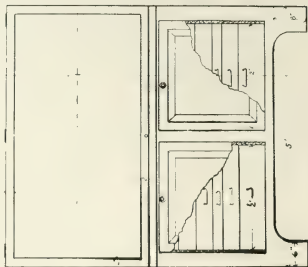
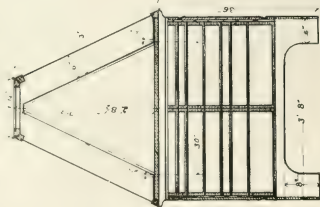
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OF THE  
UNIVERSITY OF ILLINOIS





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## ARTICLES OF INCORPORATION.

## STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

*Whereas*, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

*Now, Therefore*, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

*In Testimony Whereof*, I hereto set my hand and cause to be affixed the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,

*Secretary of State.*

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science and History.

3. The management of the aforesaid Museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS,

COOK COUNTY.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

# CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to that effect was issued June 26th, 1894, in the office of the Secretary of State for Illinois.

## AMENDED BY-LAWS.

(JANUARY 29, 1900.)

## ARTICLE I.

## MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

*First*.—Free admittance for himself and family to the Museum on any day.

*Second*.—Ten tickets every year admitting the bearer to the Museum on pay days.

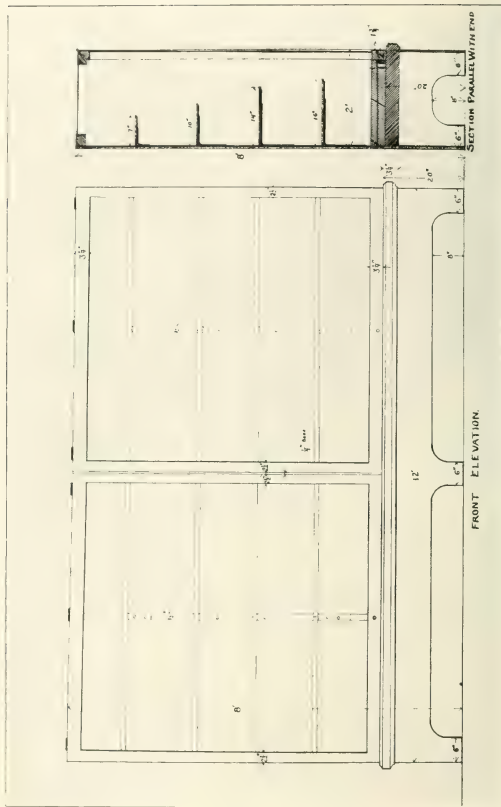
*Third*.—A copy of every publication of the Museum sold at the entrance door, and to the Annual Reports.

*Fourth*.—Invitations to all receptions, lectures or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of association shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time shall, upon the unanimous vote of the Trustees, become a Life Member. Life Members shall be exempt from all dues.







SEC. 5. Patrons shall be chosen by the Board of Trustees from among the members of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon committees other than the Executive Committee.

## ARTICLE II.

### OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

## ARTICLE III.

### MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday or a

upon the Monday following. At such meetings the Corporate Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on a Sunday, and then upon the Monday following, and upon the last Monday of January, April and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

#### ARTICLE IV.

##### AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding, or shall be recommended by the Executive Committee.

## HONORARY MEMBERS.

EDWARD E. AYER

HARLOW N. HIGINBOTHAM

CHARLES B. CORY

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DECEASED.

MARY D. STURGES

## PATRONS.

ALLISON V. ARMOUR

FREDERICK W. PUTNAM

WILLIAM I. BUCHANAN

FREDERICK J. V. SKIFF

WILLARD A. SMITH

## CORPORATE MEMBERS.

ADAMS, GEORGE E.  
ALDIS, OWEN F.  
ARMOUR, ALLISON V.  
AYER, EDWARD E.

BAKER, WILLIAM T.  
BARTLETT, A. C.  
BLACK, JOHN C.  
BLAIR, WATSON F.  
BLATCHFORD, ELIPHALET W.  
BUCHANAN, W. I.  
BUCKINGHAM, EBENEZER  
BURNHAM, DANIEL H.  
BUTLER, EDWARD B.

CHALMERS, W. J.  
CHATFIELD-TAYLOR, H. C.  
CLARK, JOHN M.  
CURTIS, WILLIAM E.

EASTMAN, SIDNEY C.  
ELLSWORTH, JAMES W.

FITZSIMONS, CHARLES

GAGE, LYMAN J.  
GETTY, HENRY H.  
GUNSAULUS, FRANK W.  
GUNTHER, C. F.

HARPER, WILLIAM R.  
HATCH, AZEL F.  
HEAD, FRANKLIN H.

HIGINBOTHAM, H. N.  
HUTCHINSON, CHARLES L.

JONES, ARTHUR B.

KEITH, E. G.  
KOHLSAAT, HERMAN H.

LATHROP, BRYAN  
LEITER, L. Z.

McCAGG, E. B.  
McCONNELL, JOHN  
McCORMICK, CYRUS H.  
McNALLY, ANDREW  
MANIERRE, GEORGE  
MITCHELL, JOHN J.

PATTERSON, ROBERT W.  
PECK, FERD. W.  
PUTNAM, FREDERICK W.

REAM, NORMAN B.  
RYERSON, MARTIN A.

SCHNEIDER, GEORGE  
SKIFF, F. J. V.  
SMITH, BYRON L.  
SMITH, WILLARD A.  
SPRAGUE, A. A.  
STOCKTON, JOSEPH  
STONE, MELVILLE E.

WALKER, EDWIN  
WALSH, JOHN R.

## DECEASED.

ARMOUR, PHILIP D.  
BISSELL, GEORGE F.  
CRAWFORD, ANDREW  
DAVIS, GEORGE R.  
HALE, WILLIAM E.  
JACKSON, HUNTINGTON W.

McCLURG, A. C.  
PEARCE, J. IRVING  
PETERSON, ANDREW  
PULLMAN, GEORGE M.  
SCOTT, JAMES W.  
WALLER, R. A.

WILLIAMS, NORMAN

## LIFE MEMBERS.

*By the payment of five hundred dollars.*

ADAMS, GEORGE E.	KING, JAMES C.
ALDIS, OWEN F.	KIRK, WALTER RADCLIFFE
BLAIR, CHAUNCEY J.	LAWSON, VICTOR F.
BARTLETT, A. C.	
BARRETT, MRS. A. D.	McCORMICK, MRS.
BARRETT, ROBERT L.	McCORMICK, CYRUS H.
BARRETT, S. E.	McCORMICK, HAROLD F.
BOOTH, W. VERNON	McNALLY, ANDREW
BURNHAM, D. H.	MacVEAGH, FRANKLIN
BUTLER, EDWARD B.	MITCHELL, J. J.
	MURDOCH, THOMAS
CARTER, JAMES S.	
CARTON, L. A.	NEWELL, A. B.
CHALMERS, WILLIAM J.	
COOPER, FRANK H.	ORR, ROBERT M.
CRANE, R. T.	
DEERING, CHARLES	PEARSONS, D. K.
DRAKE, TRACY C.	PIKE, EUGENE S.
	PORTER, GEORGE T.
FARWELL, WALTER	PORTER, H. H.
FAY, C. N.	PORTER, Jr., H. H.
FIELD, STANLEY	
FULLER, WILLIAM A.	REAM, MRS. CAROLINE P.
	REAM, NORMAN B.
GARTZ, A. F.	REVELL, ALEX. H.
GRISCOM, CLEMENT A.	RUSSELL, EDMUND A.
GROMMES, JOHN B.	RYERSON, MRS. CARRIE H.
	RYERSON, MARTIN A.
HAMILL, ERNEST A.	SCHLESINGER, LEOPOLD
HEALY, P. J.	SCHNEIDER, GEORGE
HIBBARD, W. G.	SCOTT, ROBERT S.
HILL, LOUIS W.	SEAVERN, GEORGE A.
HUGHITT, MARVIN	SINGER, C. G.
HUTCHINSON, C. L.	SMITH, BYRON L.
	SMITH, ORSON
INGALLS, M. E.	SPRAGUE, A. A.
ISHAM, MRS. KATHERINE	SPRAGUE, OTHO S. A.
	STURGES, GEORGE
JOHNSON, M.D., FRANK S.	
JOHNSON, MRS. ELIZABETH	THORNE, GEORGE R.
JONES, ARTHUR B.	TREE, LAMBERT
KITTLE, EDWIN G.	WELLING, JOHN C.
KIMBALL, M. W.	WELLS, M. D.
KING, FRANCIS	WILLARD, ALONZO J.
	WOLFF, LUDWIG

## ANNUAL MEMBERS.

ADAMS, CYRUS H.  
ADAMS, MILWARD  
ALLERTON, ROBERT H.  
ALLERTON, MRS. S. W.  
AMBERG, WILLIAM A.  
ARMOUR, GEORGE A.

BAILEY, EDWARD P.  
BAKER, SAMUEL  
BANGA, DR. HENRY  
BARNES, CHARLES J.  
BARNHART, ARTHUR M.  
BARRELL, JAMES  
BATCHELLER, W.  
BEAUVAIS, E. A.  
BECKER, A. G.  
BEIDLER, FRANCIS  
BELDEN, J. S.

BELLING, C. K. G.  
BILLINGS, DR. FRANK  
BIRKHOFF, GEORGE, JR.  
BLACKMAN, W. L.  
BLAINE, MRS. EMMONS  
BLAIR, HENRY A.  
BOAL, CHARLES T.  
BONNEY, CHARLES C.  
BOTSFORD, HENRY  
BOUTON, C. B.  
BOUTON, N. S.  
BRADWELL, JAMES B.  
BRAUN, GEORGE P.  
BREGA, CHARLES W.  
BREMNER, DAVID F.  
BROOKS, JAMES C.  
BROWN, GEORGE F.  
BROWN, WILLIAM L.  
BURLEY, CLARENCE A.  
BURLEY, FRANK E.

CABLE, R. R.  
CARPENTER, A. A.  
CARPENTER, MYRON J.  
CHANDLER, FRANK R.  
CHAPPELL, C. H.  
COMSTOCK, WILLIAM C.  
CONKLING, ALLEN  
CONOVER, CHARLES H.  
COOLBAUGH, MRS. ADDIE R.  
COOLIDGE, CHARLES  
COONLEY-WARD, MRS. L. A.

CORWITH, CHARLES R.  
COWAN, W. P.  
COX, ALFRED J.  
CRANE, CHARLES R.  
CUDAHY, JOHN  
CUMMINGS, E. A.  
CURTIS, D. H.

DAL, DR. JOHN W.  
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 TRUMBULL, PERRY  
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UIHLEIN, EDWARD G.  
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 WALKER, JAMES R.  
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 WILSON, M. H.  
 WINK, HENRY  
 WOLF, FRED. W.  
 WOOD, S. E.  
 WOODCOCK, LINDSAY T.  
 WOOSTER, CLARENCE K.

YERKES, CHARLES T.

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BOOTH, A.  
 CLARK, JONATHAN  
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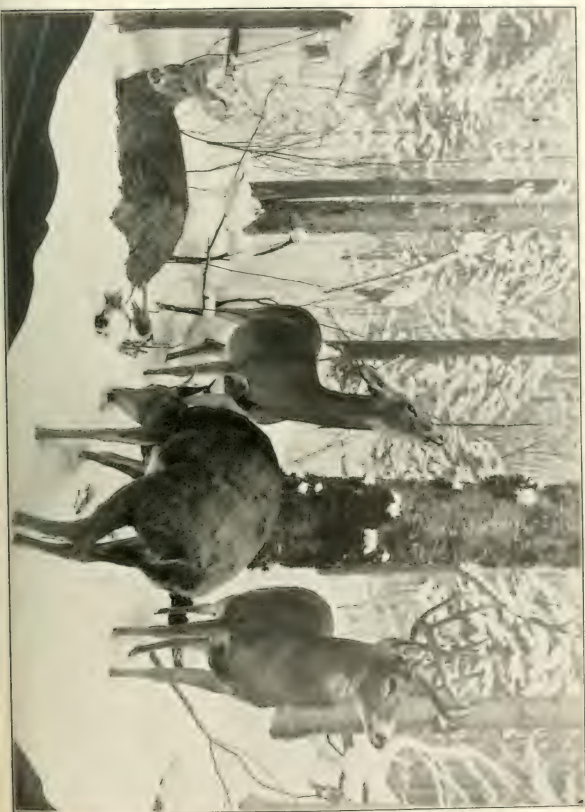




















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